ORDER NO. VRD8705137

Service Manual

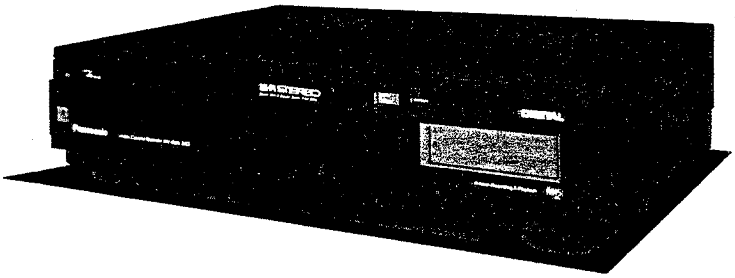
General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List

Video Cassette Recorder

Panasonic

VHS PAL Hi-Fi HQ DIGITAL

NV-D80 EG B EV



SPECIFICATIONS

ITEM	SPECIFICATION
POWER	SOURCE: 220V 50/60Hz (NV-D80EG/EV) 240V 50/60Hz (NV-D80B)
	CONSUMPTION: 33 watts (NV-D80EG/EV) 32 watts (NV-D80B)
RECORDING SYSTEM	2 rotary heads, helical scanning system
	PAL
TV TUNER SYSTEM	VHF: CH E2~CH S41 (PAL/SECAM B) 75Ω unbalanced (NV-D80EG) CH E2~CH U10 (PAL B) 75Ω unbalanced (NV-D80EV) UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced (NV-D80EG) CH21~CH69 (PAL I) 75Ω unbalanced (NV-D80B) CH21~CH69 (PAL G) 75Ω unbalanced (NV-D80EV)
RF OUT SYSTEM	UHF: CH36±4 (PAL/SECAM G) 73^{+2}_{-3}dBμ, 75Ω terminated (NV-D80EG) CH36±4 (PAL I) 73±3dBμ, 75Ω terminated (NV-D80B) CH36±4 (PAL G) 70^{+2}_{-3}dBμ, 75Ω terminated (NV-D80EV)
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pc. for LP recording, playback and trick play (L′-R′ heads)
	INPUT: VIDEO IN Connector (BNC type) 1.0Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0Vp-p, 75Ω terminated
	OUTPUT: VIDEO OUT Connector (BNC type) 1.0Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0Vp-p, 75Ω terminated

ITEM	SPECIFICATION
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)
	INPUT: AUDIO IN Connector (Phono type) More than −10dBV (316mV), more than 50kΩ EURO AV Connector (21 pin) More than −10dBV (316mV), more than 10kΩ
	OUTPUT: AUDIO OUT Connector (Phono type) −8dBV (400mV), Less than 1kΩ EURO AV Connector (21 pin) −6dBV (500mV), Less than 1kΩ HEAD PHONE Jack −30dBV, 8Ω
	TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
TAPE FORMAT	VHS Cassette tape (Tape width 12.7mm)
TAPE SPEED	SP: 23.39mm/s LP: 11.695mm/s Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time 5.5min. with 180min. type tape
DIMENSIONS	430(W)×109.5(H)×357(D)mm
WEIGHT	7.1kg (NV-D80EG/EV) 7.0kg (NV-D80B)
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red remote controller 2 pc. Audio Cables 1 pc. Digital Scanner Case 1 pc. Digital Scanner 1 pc. Programme sheet 1 pc. AC Mains Lead

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.
Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.
Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.
In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.
Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...
Section 4 contains exploded views and parts list.
Please place orders using the parts list and not the drawing reference unmbers.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

CONTENTS

TECHNICAL INFORMATION

SECTION 1

GENERAL DESCRIPTIONS 1-1
1-1. FEATURES 1-1
1-2. CONTROLS & COMPONENTS 1-2
1-3. PROGRAMMABLE REMOTE CONTROLLER 1-4

SECTION 2

ADJUSTMENT PROCEDURES 2-1
2-1. MECHANICAL ADJUSTMENT PROCEDURES 2-1
2-2. DISASSEMBLY METHOD 2-1
2-3. REPLACEMENT OF THE CYLINDER UNIT 2-7
2-4. ELECTRICAL ADJUSTMENT PROCEDURES 2-9

SECTION 3

BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS 3-1
3-1. SYSTEM CONTROL BLOCK DIAGRAM 3-1
3-2. SERVO BLOCK DIAGRAM 3-2
3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM 3-3
3-4. DIGITAL BLOCK DIAGRAM 3-4
3-5. FM AUDIO BLOCK DIAGRAM 3-5
3-6. DECODER BLOCK DIAGRAM 3-6
3-7. POWER SCHEMATIC DIAGRAM 3-7
3-8. POWER C.B.A. 3-7
3-9. POWER SUPPLY Section In Main C.B.A. 3-7
3-10. SYSTEM CONTROL SCHEMATIC DIAGRAM 3-8
3-11. SYSTEM CONTROL Section In Main C.B.A. 3-9
3-12. SERVO SCHEMATIC DIAGRAM 3-10
3-13. SERVO PACK C.B.A. 3-10
3-14. SERVO Section In Main C.B.A. 3-11
3-15. CYLINDER DRIVE C.B.A. 3-11
3-16. INDEX SEARCH PACK C.B.A. 3-11
3-17. INDEX SEARCH PACK SCHEMATIC DIAGRAM 3-11
3-18. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM 3-12
3-19. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM 3-12
3-20. LUMINANCE & CHROMINANCE Section In Main C.B.A. 3-13
3-21. LUMINANCE & CHROMINANCE PACK C.B.A. 3-13
3-22. SECAM PACK C.B.A. (NV-D80EG) 3-13
3-23. INPUT/OUTPUT PACK & SUB INPUT/OUTPUT SCHEMATIC DIAGRAM 3-14
3-24. INPUT/OUTPUT PACK C.B.A. & SUB INPUT/OUTPUT C.B.A. 3-15
3-25. DIGITAL C.B.A. 3-16

3-26. DIGITAL SCHEMATIC DIAGRAM 3-17
3-27. SUB DIGITAL SCHEMATIC DIAGRAM 3-18
3-28. SUB DIGITAL C.B.A. 3-19
3-29. SYNC GENERATOR SCHEMATIC DIAGRAM 3-20
3-30. SYNC GENERATOR C.B.A. 3-20
3-31. HEAD AMP C.B.A. 3-20
3-32. HEAD AMP SCHEMATIC DIAGRAM 3-21
3-33. AUDIO SCHEMATIC DIAGRAM 3-22
3-34. AUDIO Section In Main C.B.A. 3-23
3-35. FM AUDIO C.B.A. 3-24
3-36. FM AUDIO SCHEMATIC DIAGRAM 3-25
3-37. CH SELECT Section In Main C.B.A. (NV-D80EG/EV) 3-26
3-38. CH SELECT PACK C.B.A. (NV-D80EG/EV) 3-26
3-39. CH SELECT SCHEMATIC DIAGRAM (NV-D80EG/EV) 3-27
3-40. CH SELECT SCHEMATIC DIAGRAM (NV-D80B) 3-28
3-41. CH SELECT Section In Main C.B.A. (NV-D80B) 3-29
3-42. CH SELECT PACK C.B.A. (NV-D80B) 3-29
3-43. OPERATION SCHEMATIC DIAGRAM 3-30
3-44. OPERATION C.B.A. 3-31
3-45. TIMER C.B.A. 3-32
3-46. TIMER SCHEMATIC DIAGRAM 3-33
3-47. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-D80EG) 3-34
3-48. TV DEMODULATOR INTERFACE C.B.A., TV DEMODULATOR C.B.A. & TUNER/ARU C.B.A. (NV-D80EG) 3-35
3-49. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-D80B) 3-36
3-50. TV DEMODULATOR INTERFACE C.B.A., TV DEMODULATOR C.B.A. & TUNER/ARU C.B.A. (NV-D80B) 3-37
3-51. TV DEMODULATOR INTERFACE C.B.A., TV DEMODULATOR C.B.A. & TUNER/ARU C.B.A. (NV-D80EV) 3-38
3-52. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-D80EV) 3-39
3-53. FREQUENCY SYNTHESIZER TUNER & VPS SCHEMATIC DIAGRAM (NV-D80EG/EV) 3-40
3-54. FREQUENCY SYNTHESIZER TUNER & VPS C.B.A. (NV-D80EG/EV) 3-40
3-55. MAIN C.B.A. 3-41
3-56. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80EG) 3-42
3-57. RF CONVERTER C.B.A. (NV-D80EG) 3-42
3-58. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80B) 3-42
3-59. RF CONVERTER C.B.A. (NV-D80B) 3-42
3-60. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80EV) 3-42
3-61. RF CONVERTER C.B.A. (NV-D80EV) 3-42
3-62. PROGRAMMABLE REMOTE CONTROLLER SCHEMATIC DIAGRAM 3-43
3-63. PROGRAMMABLE REMOTE CONTROLLER C.B.A. 3-43
3-64. DIGITAL SCANNER SCHEMATIC DIAGRAM 3-44
3-65. DIGITAL SCANNER C.B.A. 3-44
3-66. INTERCONNECTION SCHEMATIC DIAGRAM 3-45
3-67. ICs & TRs INFORMATION 3-46

SECTION 4

EXPLODED VIEWS & PARTS LIST 4-1
4-1. EXPLODED VIEW 4-1
    1. CHASSIS PARTS SECTION (1) 4-1
    2. CHASSIS PARTS SECTION (2) 4-2
    3. CASSETTE UP MECHANISM SECTION 4-3
    4. CASING PARTS SECTION 4-4
    5. PACKING PARTS SECTION 4-5
    6. PROGRAMMABLE REMOTE CONTROLLER UNIT 4-6
    7. DIGITAL SCANNER 4-7
MECHANICAL REPLACEMENT PARTS LIST
ELECTRICAL REPLACEMENT PARTS LIST

REMARKS (NV-D80EG West Germany model only)

1. It is possible to receive, record and play back colour broadcasts from East Germany (DDR) on this video recorder.
2. When a video tape that was recorded with a colour TV broadcast from East Germany on this VTR is played back on a SECAM (France) or on a PAL VTR, the picture may be in black and white.
3. When a video tape recorded on a SECAM (France) VTR or a SECAM (France) prerecorded video tape is played back on this VTR, the picture is in black and White.

Technical Information

Subject: How To Make Easier Servicing

1. HOW TO CHECK OR REPLACE THE TIMER CIRCUIT

When checking or replacing the Timer Circuit,the following steps should be followed to protect this circuit.

(1) Disconnect the AC mains.
(2) Make a short circuit at C7571 by connecting a wire to both leads wire of the C7571.
(3) Check or replace the parts.
(4) After checking or replacing the parts,remove the short circuit from C7571.

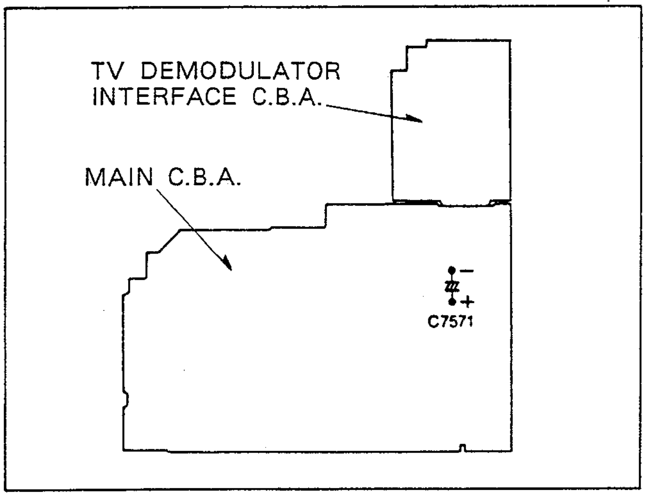

TV DEMODULATOR INTERFACE C.B.A.
MAIN C.B.A.
C7571

Fig. 1

2. HOW TO RELEASE THE ELECTRONIC LOCK

When you forget the 4 digit personal code number,the following steps should be followed to release the Electronic Lock.

IN CASE OF NV-D80EG/EV

(1) Press the Electronic Lock released switch as shown below and this switch can be pressed on the bottom case by using the Plastic tip driver.
(2) Then the Electronic Lock is now released and the VTR will be turned on.

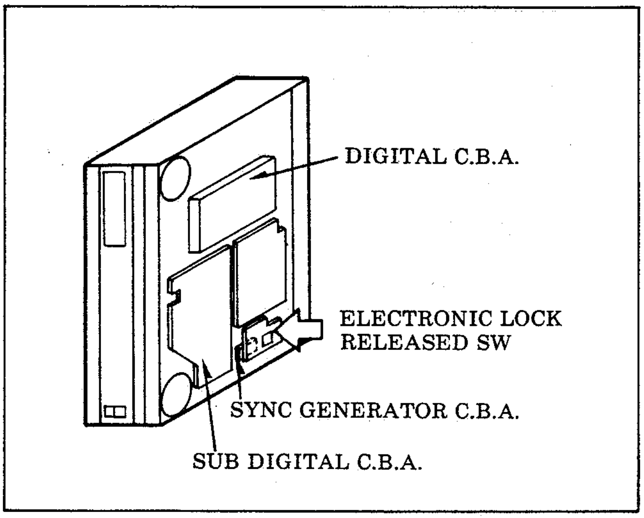

DIGITAL C.B.A.
ELECTRONIC LOCK RELEASED SW
SYNC GENERATOR C.B.A.
SUB DIGITAL C.B.A.

Fig. 2

IN CASE OF NV-D80B

(1) Remove the Top case and Front pannel.
(2) Make a short circuit between TP7515 and TP7516 on the Timer C.B.A. by connecting a jumper wire and remove it.
(3) Then the Electronic Lock is now released and the VTR will be turned on.

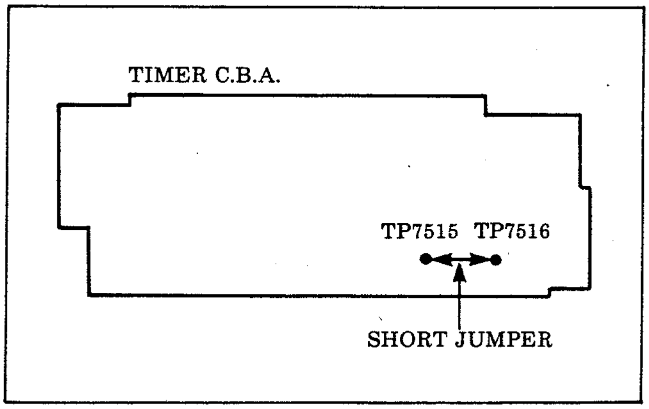

TIMER C.B.A.
TP7515
TP7516
SHORT JUMPER

Fig. 3

SECTION 1
GENERAL DESCRIPTIONS

1-1. FEATURES

1. Digital NR Switch

This switch can be used to minimize noise in all pictures played back or received through the VTR.

2. Digital Special Effect

The special digital picture effects can be enjoyed by using the Remote Controller.

3. 1-Month Calendar Timer

The clock/timer of the VTR is programmed with the calendar up to the end of 2001, so it knows exactly what day of the week it is on any given date. Programming of as many as 8 timer recordings is possible up to one month in advance.

4. VPS (Video Programme System) (NV-D80EG/EV)

The Video Programme System is an extremely convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time is different from the scheduled time.

5. Auto Operation

The extremely convenient Auto Operation functions of this VTR include Auto Start and Auto Play when a recorded cassette is inserted, Auto Eject which indicates that an inserted cassette is not suitable for recording, Power-Off Eject for ejecting a cassette even with the VTR off, and Auto Rewind at the end of a tape. If the VTR On/Off Switch is pressed during the rewind mode including Auto Rewind, the VTR will eject the cassette and turn itself off when rewinding is completed.

6. Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start or with start within 24 hours by precisely setting the starting time and ending time to the desired minute. When the recording ends, the VTR will automatically turn itself off.

7. HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

8. Lap Time Counter

The new Lap Time Counter is a great improvement over the approximate counter systems of conventional VTRs. It gives you an exact reading of the elapsed tape time in hours, minutes and seconds, and makes it easy to calculate the tape time left on a cassette.

9. Digital Scanner

This Digital Scanner lets you programme timer recordings by tracing the corresponding bar codes on the supplied Programming Sheet and then transmitting the data to the VTR.

10. VHS Index Search System

With the Index Search function, up to 20 addresses (places where an Index signal is recorded) can be skipped to directly locate the beginning of the desired programme in forward or reverse direction in the Fast Forward or Rewind mode.

11. Intro Scan Function

The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another.

12. Electronic Lock (NV-D80EG/EV)

This Electronic Lock function makes it possible to prevent unauthorized use of the VTR by inputting a personal code number with the Remote Controller.

13. Hi-Fi Stereo System

14. Recording and Playback of Stereo, Bilingual and Monaural TV Programmes (NV-D80EG/EV)

The new hi-fi stereo system in combination with the built-in multiplex tuner can process audio two-channel as well as monaural signals for both recording and playback. Even if the TV set used is of the mono type, stereo or bilingual sound of recorded programmes or sound of TV programmes, being received on the VTR tuner and played back through the TV set can be reproduced via a connected hi-fi stereo system with external speakers.

15. Recording and Playback of "Simulcast" Sound

This VTR allows recording and playback of the stereo sound of TV programmes broadcast via "Simulcast" by connecting an FM tuner to the Audio Input Sockets.

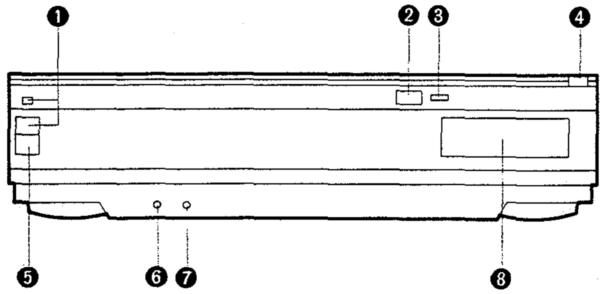
16. **Digital Still, Digital Still Advance and Digital Double Fine Slow Playback**

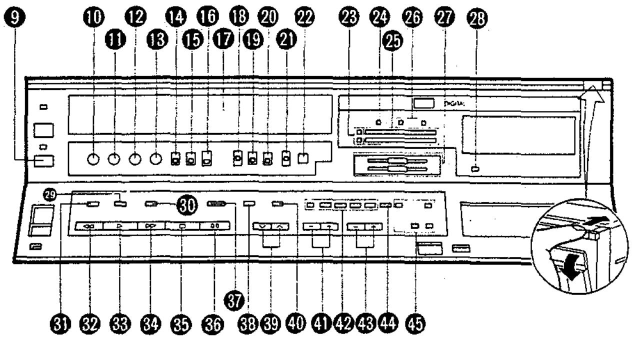
17. **Programmable Remote Controller**

18. **8 Hours Recording and Playback**

1-2. CONTROLS AND COMPONENTS

FRONT





① VTR On/Off Switch with Indicator

② Infra-red Remote Control Receiver

③ Digital Indicator

④ Control Panel Open Button

⑤ Cassette-in Indicator

⑥ Headphones Socket

⑦ Microphone Input Socket

⑧ Multi-Function Display

⑨ Eject Button (▲)

⑩ Headphones Output Level Control

⑪ Tracking Control

⑫ Slow Tracking Control

⑬ Picture Sharpness Control

⑭ Edit Switch

When the Dubbing (copying) from one video cassette to another VTR and receiving weak TV broadcasts from Tuner, the Edit Switch should be set to "On" position.

⑮ Tape Speed Selector

For recording either of two tape speeds can be selected.
During playback the recorder selects automatically the correct speed.
Select the desired tape speed with the Tape Speed Selector before recording.
* Set to the "SP" position for normal speed.
* Set to the "LP" position for slow speed.
The corresponding indicator (SP or LP) lights up during recording and playback in the Multi-Function Display.

⑯ Digital NR Switch

This switch can be used to minimize noise in all pictures that are played back or received through the VTR.
Usually this switch is set to position "1".
When the picture is hard to see due to excessive picture noise, set the switch to position "2".
*When the switch is set to position "2" or "1", and after-image may occur.

⑰ Cassette Compartment

⑱ Audio Level Meter Selector

⑲ Audio Rec Level Control Selector

⑳ MPX Filter Switch

If the sound is impaired by high frequency distortion when recording from an FM tuner, the MPX Filter Switch should be set to "On" position.

㉑ Input Signal Selector

㉒ Timer Record Button

㉓ Audio Playback Mode Indicators

㉔ Simulcast Indicator

㉕ Audio Level Meter

㉖ Audio Recording Mode Indicators (NV-D80EG/EV)

㉗ Audio Rec Level Controls

㉘ Audio Dubbing Indicator

㉙ Audio Playback Mode Selector

㉚ Audio Dubbing Button

㉛ Euro AV Button

㉜ Rewind ◀◀/Review ⊟ Button

When the Rewind/Review Button is kept pressed,the unit will rewind the tape in reverse direction.
When the Rewind/Review Button is kept pressed while the VTR is in the playback mode, the tape will be played back in reverse direction at about 7 times(SP mode), a times(LP mode) of the normal speed.

㉝ Play Button (▶)

㉞ Fast Forward ▶▶/Cue ⊟ Button

When the Fast Forward/Cue Button is kept pressed, the unit will rewind the tape in forward direction.
When the Fast Forward/Cue Button is kept pressed while the VTR is in the playback mode, the tape will be played back at about 7 times (SP mode), a times (LP mode) of the normal speed.

㉟ Stop Button (■)

㊱ Pause/Still Button (❚❚)

㊲ Record Button (●)

㊳ Memory/Search Button

When this button is pressed once, the Memory Indicator "M" will light up, and when it is pressed one more time, the Search Indicator "S" will appear instead.
When it is pressed a third time the Search Indicator "S" will disappear.

㊴ Channel Selection Up and Down Buttons

㊵ Reset/Index Button

㊶ OTR On Buttons

㊷ Timer Controls

㊸ OTR Off Buttons

㊹ VPS Button (NV-D80EG/EV)

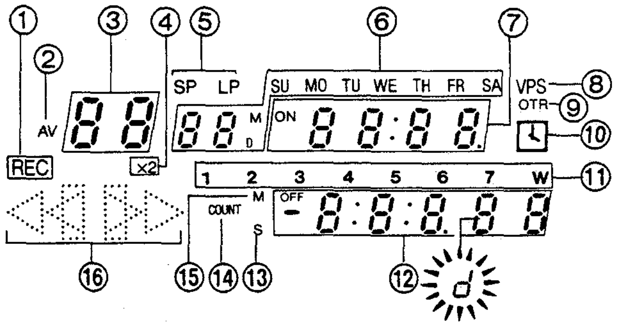
The VPS Button can be used which the TV programmes scheduled for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time is different from the scheduled time.

㊺ Tuner Set-up Controls

Channel Indication	TV channel	
	NV-D80EG	NV-D80EV
2–12	E2–E12	E2–E12
13–20	———	A–H
21–69	21–69	21–69
74–76	———	S1–S3
80–89	S1–S10	M1–M10
90–99	S11–S20	U1–U10
121–141	S21–S41	———

- In Italy: H1...(11), H2...(12)
  13–20...(A–H)

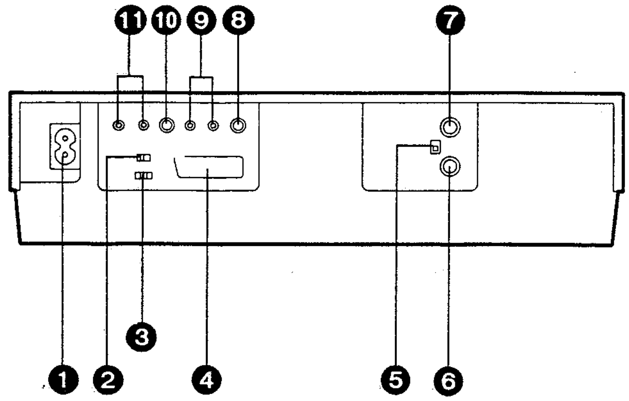
MULTI-FUNCTION DISPLAY



When dew forms:
Dew Indicator

① Recording Indicator	⑨ OTR Indicator
② Euro AV Indicator	⑩ Timer Recording Display
③ Channel Display	⑪ Timer Programme Number
④ Double Speed Indicator	⑫ Tape Counter Display
⑤ Tape Speed Indicator	⑬ Search Indicator
⑥ Date Display	⑭ Tape Counter
⑦ Clock Display	⑮ Memory Indicator
⑧ VPS Indicator (NV-D80EG/EV)	⑯ Tape Running Display

REAR



① AC Mains Lead Socket

② DBS Switch (NV-D80EG)

With this switch, the video signal can be switched over to the Euro AV Connector. When a satellite TV decoder (descrambler) is connected, the satellite signal can be recorded by pressing the Euro AV Button (Euro AV mode) or displayed on the TV set.

③ Colour Mode/Test Signal Switch

④ Euro AV Socket

⑤ RF Signal Level Switch (NV-D80EV/B)

⑥ RF Input Socket

⑦ RF Output Socket

⑧ Video Output Socket

⑨ Audio Output Sockets

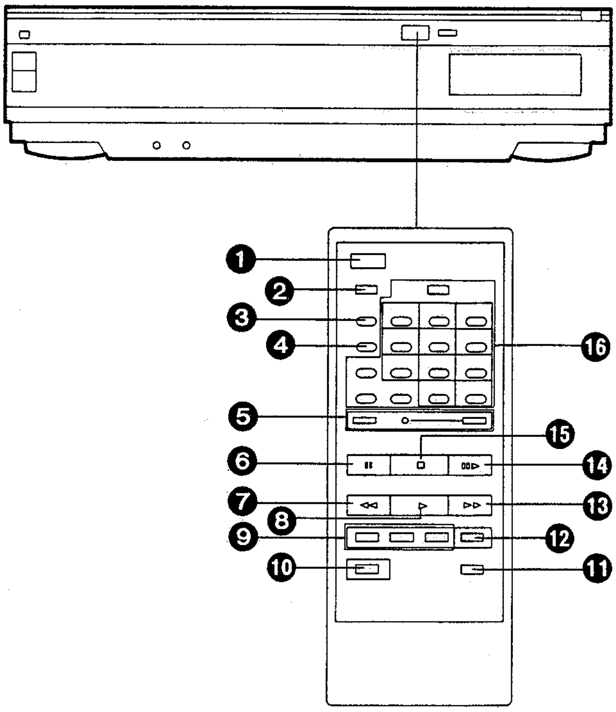
⑩ Video Input Socket

⑪ Audio Input Sockets

1-3. PROGRAMMABLE REMOTE CONTROLLER

— Unit Number: VEQ0574 (NV-D80B) —

— Unit Number: VEQ0573 (NV-D80EG/EV) —



① **VTR On/Off Button**

② **Audio Select Button**

③ **Memory/Search Button**

④ **Reset/Index Button**

⑤ **Record Buttons (●)**

⑥ **Pause/Still Button (❚❚)**

⑦ **Rewind ◀◀/Review ⇤ Button**

⑧ **Play Button (▶)**

⑨ **Slow Buttons**

When this button is pressed, the unit will play back the tape in slow–motion at 1/10 of normal speed. The slow playback speed can be varied between 1/25 and 1/5 of normal speed by using the "+" and "–" Buttons.

⑩ **Digital Function Button**

⑪ **Intro Scan Button**

⑫ **Double Speed Playback Button (×2)**

⑬ **Fast Forward ▶▶/Cue ⇥ Button**

⓮ Still Advance Button (II▸)

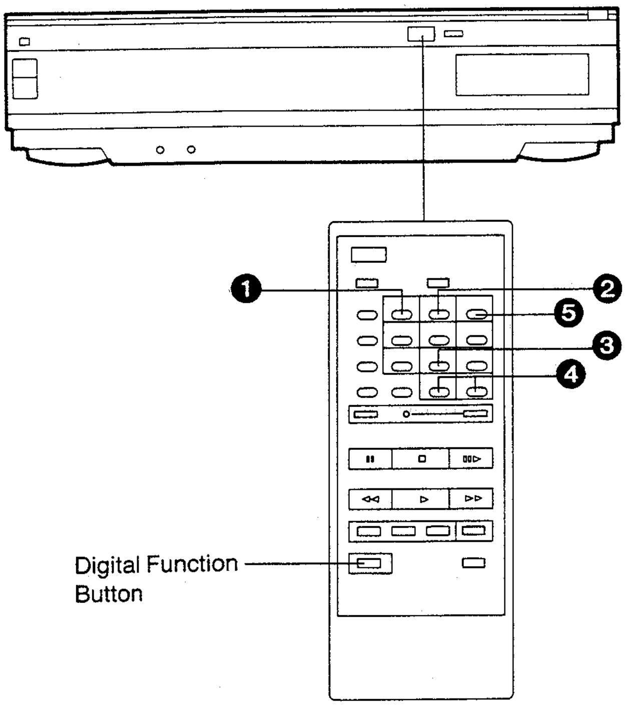
⓯ Stop Button (■)

⓰ Timer Recording & Programme Position Selector Buttons

Note:
- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver window in the VTR is about 60°.
- The unit should be used within a range of about 7 meters from the front of the VTR.

1-3-1. DIGITAL SPECIAL EFFECTS

The special digital picture effects can be enjoyed by using the Remote Controller.
- To operate these digital functions, press the Digital Function Button together with the desired function button on the Remote Controller.



Video Memory Store

This function freezes the playback picture not only of video tapes, but also of TV broadcasts (received with the TV tuner in the VTR) and pictures input from external sources, and gives a still-picture. The reproduction of the sound will continue normally.

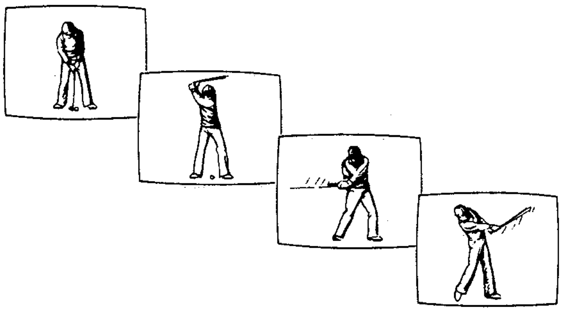
❶ Press the F. Store Button to freeze the picture.

❺ To return to the normal moving picture, press the Clear Button or F. Store Button.

Strobe

This function makes possible playback with a strobe-picture-like effect.

❷ Press the Strobe Button to start the strobe picture effect.



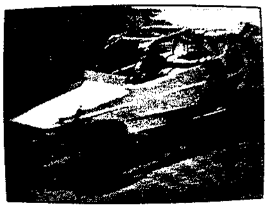
❹ The intervals of the strobe can be varied between 1 and ⅙ second by pressing the (+) or (−) Button.

❺ To return to the normal moving picture, press the Clear Button or the Strobe Button.

Graphic Effect

This function can be used to give the moving picture an oil-painting-like effect.

❸ Press the G. Effect Button.



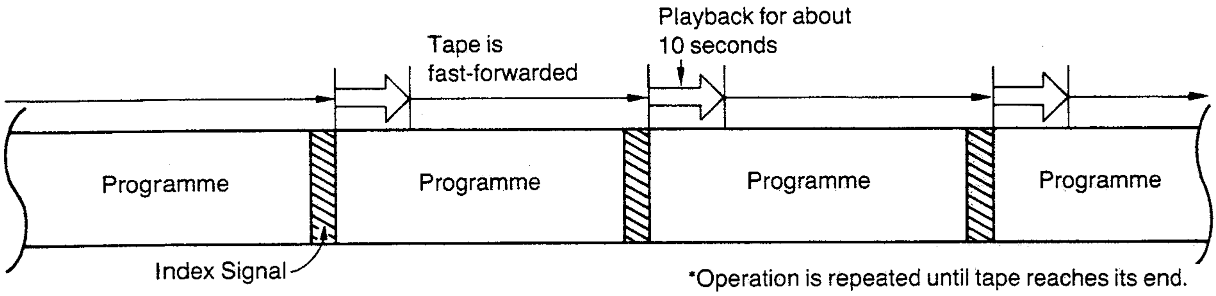
❹ The polarizing picture effect can be made stronger or weaker by pressing the (+) or (−) Button.

❺ To return to the normal moving picture, press the Clear Button or G. Effect Button.

- Of these digital picture effects, only the Graphic Effect mode can be recorded on this VTR.
- During recording, it is not possible to monitor the picture with Strobe effect.
- In the Digital mode, the picture may vibrate vertically. However, this is not due to any malfunction.

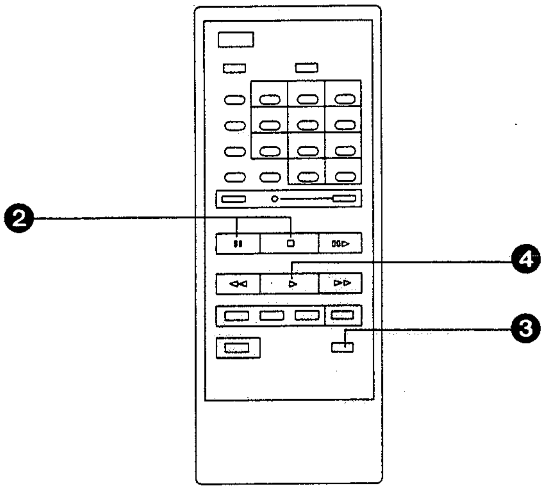
1-3-2. INTRO SCAN FUNCTION

How the Intro Scan Function Works...



The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another. This is convenient for quick checking what programmes are on a tape, or to find the desired instalment of a TV series you have recorded on a tape.

Convenient Intro Scan Operation with the Remote Controller



❶ Insert a video cassette on which index signals are recorded.

❷ Put the VTR in the stop mode or the still playback mode.

❸ Press the Intro Scan Button.
("S" mark will light up in the Multi-Function Display and the Intro Scan will start.)

❹ When the desired scene is reached, press the Play Button.

Intro Scan Operation on the VTR

① Insert a video cassette.
(Put the VTR in the stop mode.)

② Press the Memory/Search Button twice.
("S" mark appears.)

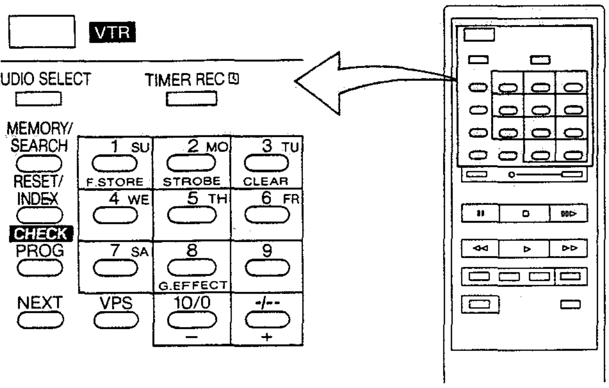
③ Press the Fast Forward ▶▶/Cue [▶▶] Button.
(The Intro Scan starts.)

④ When the desired scene is reached, press the Play Button.

- The Intro Scan function may not be activated for the first programme recorded close to the beginning of the tape.
- During the Intro Scan, if there is a portion without any recording on the tape, the Intro Scan function will be activated at that position to play back the tape for about 10 seconds, and the Intro Scan will then continue.
- The Intro Scan function may not be activated, if the interval between programme starts is less than 5 minutes in the LP mode, or less than 2 minutes in the SP mode.
- If a portion without any recording on the tape continues for more than about 50 minutes in the SP mode, or more than about 90 minutes in the LP mode, the Intro Scan function will be cancelled and the playback will start.

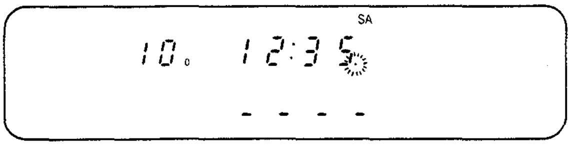
1-3-3. ELECTRONIC LOCK

Inputting a Personal Code Number

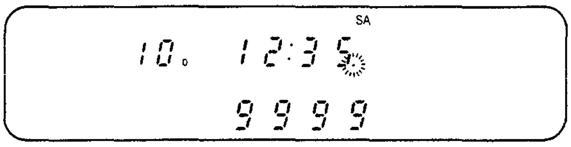

VTR
AUDIO SELECT
TIMER REC
MEMORY/ SEARCH
RESET/ INDEX
CHECK
PROG
NEXT
1 SU
2 MO
3 TU
F.STORE
STROBE
CLEAR
4 WE
5 TH
6 FR
7 SA
8
9
G.EFFECT
VPS
10/0
-/--
–
+

① Press the VTR On/Off Switch to turn the VTR off.

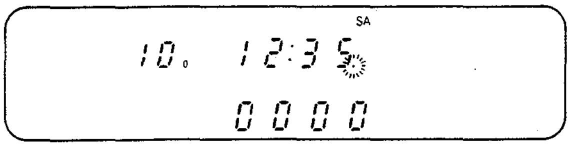
② Press the Next Button.



③ Press the number key "9" on the Remote Controller four times.


SA
10. 12:35
9 9 9 9

④ Press the Next Button.


SA
10. 12:35
0 0 0 0

⑤ Input a 4-digit personal code number with the Remote Controller.

⑥ Press the Next Button.
- The " L " indication appears in the Channel Display of the Multi-Function Display.
- All functions of the VTR are now locked and cannot be operated. To enable normal operation again, the lock must be released as described below.

Releasing the Electronic Lock

① Press the Next Button.

② Input the 4-digit personal code number with the Remote Controller.

③ Press the Next Button.
- The Electronic Lock is now released and the VTR will be turned on.

If you forget the 4–digit personal code number,please refer to the Technical Information at the previous page.

SECTION 2
ADJUSTMENT PROCEDURES

2-1. MECHANICAL ADJUSTMENT PROCEDURES

This Mechanical Chassis of this model NV-D80EG/EV/B is the same as the G Mechanical Chassis.
Therefore please refer to the Service Manual G Mechanical Chassis (Order No. VRD8701105).

2-2. DISASSEMBLY METHOD

2-2-1. DISASSEMBLY FLOWCHART

The above flowchart describes the order of stops for removing the cabinet parts and certain printed circuit boards in order to gain access to the items needing servicing. To reassemble the unit, follow the steps in reverse order.

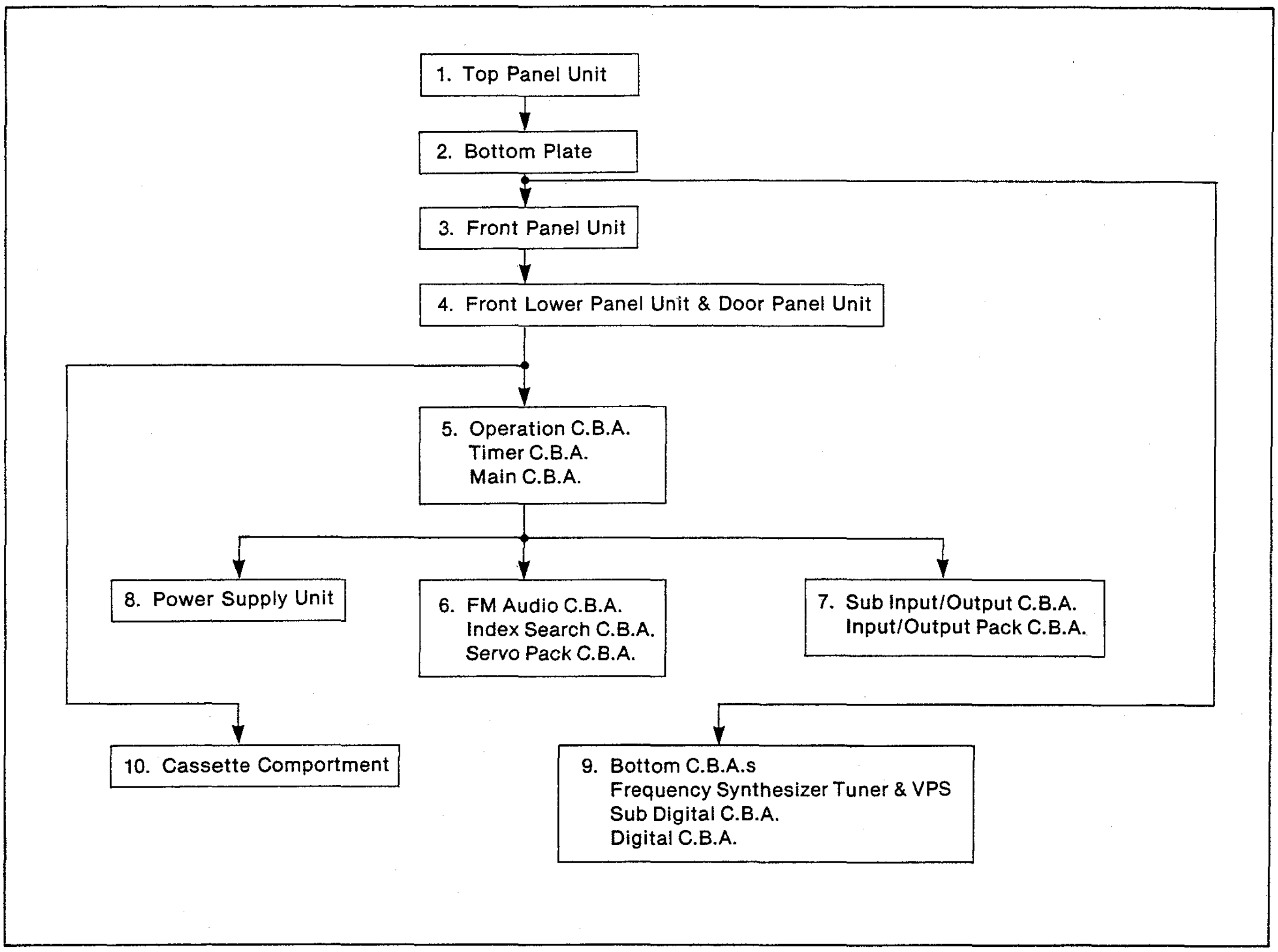

1. Top Panel Unit
2. Bottom Plate
3. Front Panel Unit
4. Front Lower Panel Unit & Door Panel Unit
5. Operation C.B.A.
Timer C.B.A.
Main C.B.A.
8. Power Supply Unit
6. FM Audio C.B.A.
Index Search C.B.A.
Servo Pack C.B.A.
7. Sub Input/Output C.B.A.
Input/Output Pack C.B.A.
10. Cassette Comportment
9. Bottom C.B.A.s
Frequency Synthesizer Tuner & VPS
Sub Digital C.B.A.
Digital C.B.A.

FIG.D1

2-2-2. DETAILED DISASSEMBLY METHOD

1. Removal of the Top Panel Unit

Unscrew 4 screws(A) on the Top Panel Unit and carefully lift the rear of case to remove.

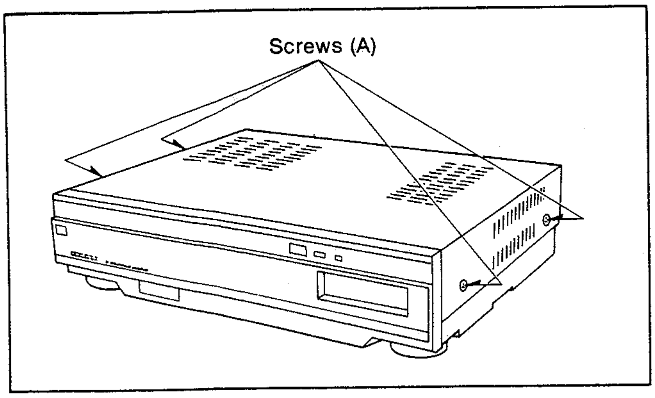


FIG.D2

2. Removal of the Bottom Plate

Unscrew 8 screws(B) and lift off the Bottom Plate.

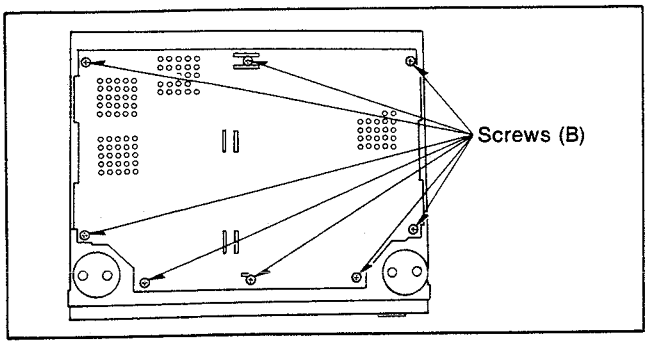


FIG.D3

3. Removal of Front Panel Unit

Open the Door Panel Unit and unscrew 2 screws(C) and then unlock 5 locking portions(D).

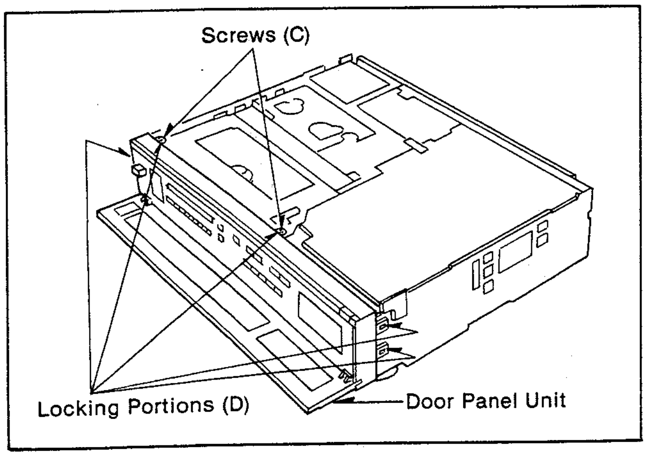

Screws (C)
Locking Portions (D)
Door Panel Unit

FIG.D4

4. Removal of Front Lower Panel Unit and Door Panel Unit

Unscrew 6 screws(E) and then shut the Door Panel Unit.

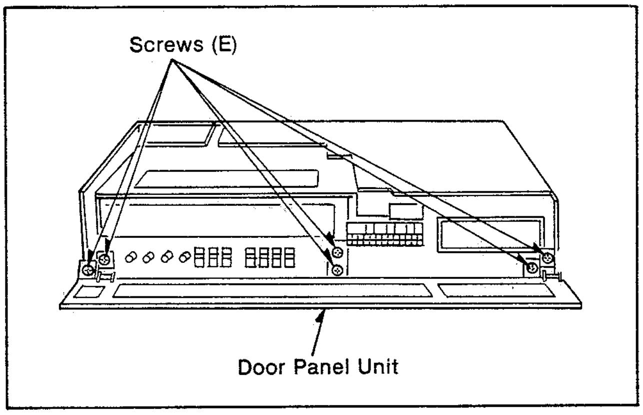

Screws (E)
Door Panel Unit

FIG.D5

Unlock 3 locking portions(F).
Remove the Front Lower Panel Unit.

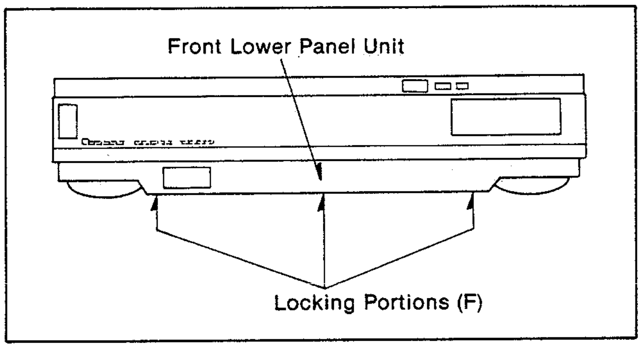

Front Lower Panel Unit
Locking Portions (F)

FIG.D6

Unlock the connector lock of P7502 on the Timer C.B.A. and remove the flexible wire.
Next, unscrew 3 screws(G) and carefully remove the Door Panel Unit.

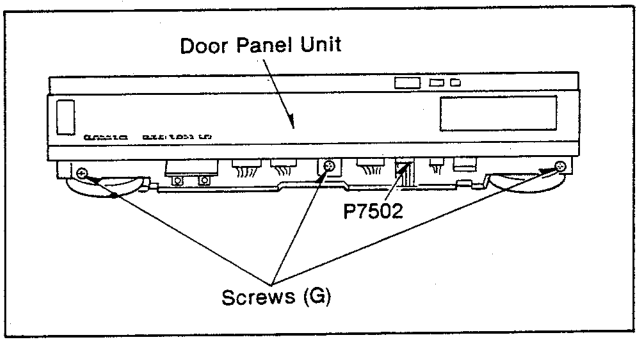
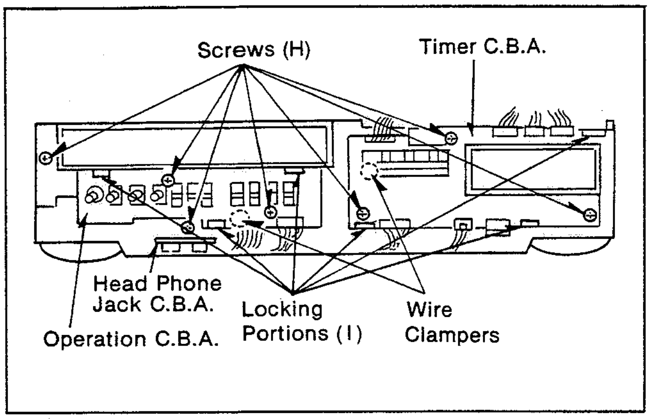

Door Panel Unit
P7502
Screws (G)

FIG.D7

5. Opening of the Operation C.B.A., Timer C.B.A., Head Phone Jack C.B.A. and Main C.B.A.

Unscrew 7 screws(H) and unlock 6 locking portions(I).
Then unlock 2 wire clampers and carefully open the Operation C.B.A., Timer C.B.A. and Head Phone Jack C.B.A.



Screws (H)
Timer C.B.A.
Head Phone Jack C.B.A.
Locking Portions (I)
Wire Clampers
Operation C.B.A.

FIG.D8

Unscrew 4 screws(J) on the rear panel.

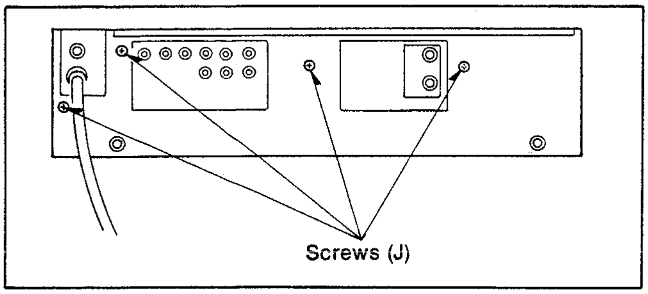
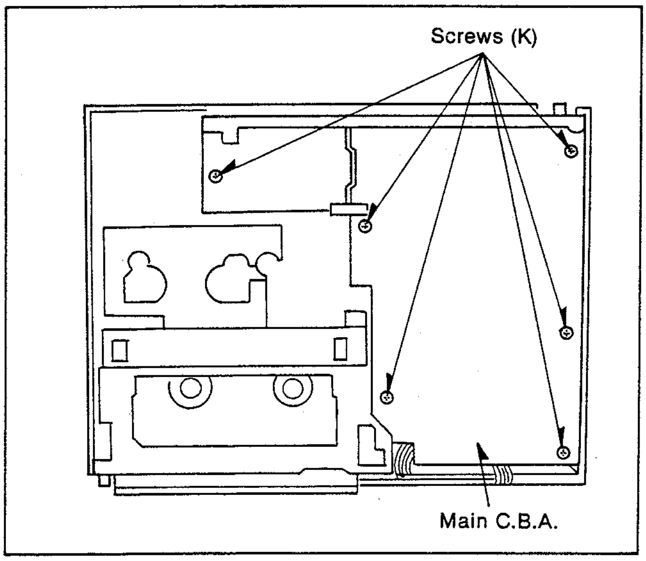


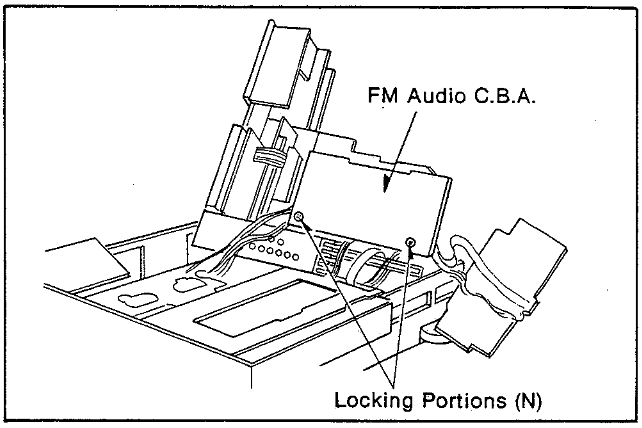
FIG.D9

Unscrew 6 screws(K) on the Main C.B.A.
And open the Main C.B.A.



Screws (K)
Main C.B.A.

FIG.D10

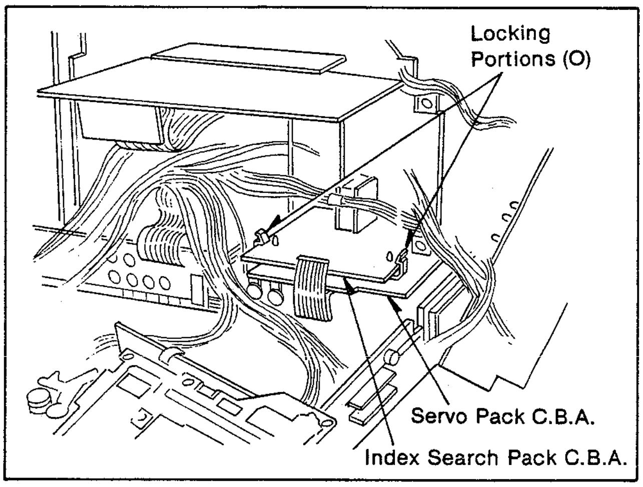


FM Audio C.B.A.
Locking Portions (N)

FIG.D11

6. Opening of the FM Audio C.B.A., Index Search and Servo Pack C.B.A.

Unlock 2 locking portions(N) and open up the FM Audio C.B.A.
Next, unlock 2 locking portions(O) and open up the Index Search C.B.A.

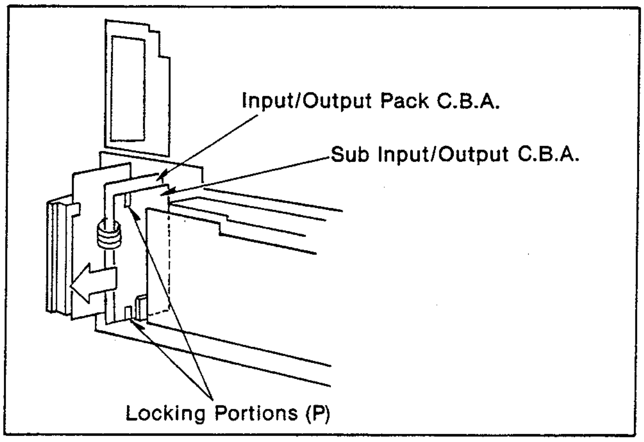


Locking Portions (O)
Servo Pack C.B.A.
Index Search Pack C.B.A.

FIG.D12

7. Opening of the Sub Input / Output C.B.A. and Input/Output Pack C.B.A.

Unlock 2 locking portions(P) and open the Sub Input/Output Pack C.B.A.



Input/Output Pack C.B.A.
Sub Input/Output C.B.A.
Locking Portions (P)

FIG.D13

8. Removal of Power Supply Unit

Remove 2 screws(Q) and take it out from the Main C.B.A.
Remove the shield case then checking can be performed.

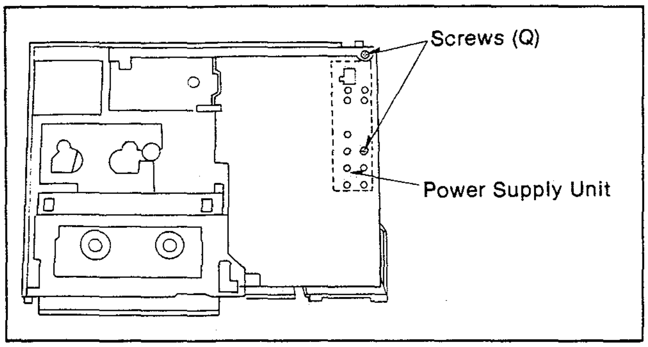

Screws (Q)
Power Supply Unit

FIG.D14

9. Opening of Bottom C.B.A.s

Unscrew 3 screws(R) and Open the Frequency Synthesizer Tuner & VPS C.B.A. and Sub Digital C.B.A.
Next, unscrew 3 screws(S) and remove the shield box.

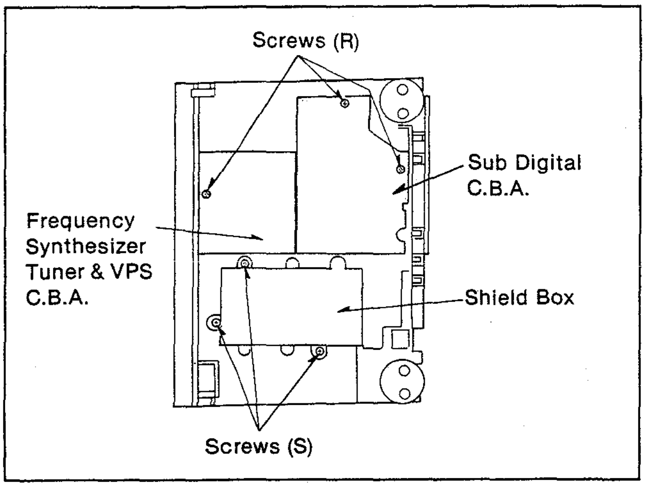

Screws (R)
Sub Digital C.B.A.
Frequency Synthesizer Tuner & VPS C.B.A.
Shield Box
Screws (S)

FIG.D15

Then unscrew 2 screws(T) and open the shield cover.
And remove the Digital C.B.A.

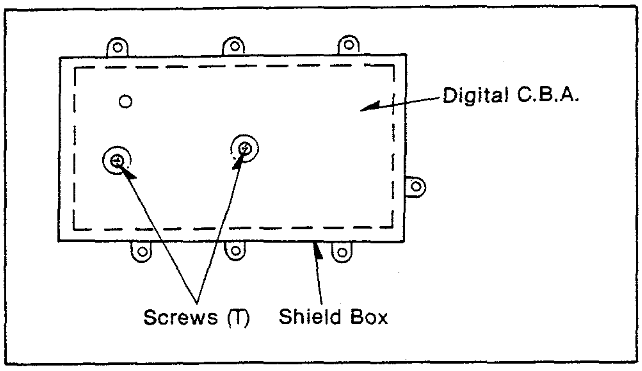

Digital C.B.A.
Screws (T)
Shield Box

FIG.D16

10. Removal of Cassette Compartment

Remove 2 screws(U) and slide the cassette holder until appearing 2 screws(V) by turning (clockwise) the Capstan Rotor Unit (located in the bottom side) and then remove 2 screws(V).
Remove the flexible wire from connector P1503 mounted on Take–up Photo Tr C.B.A., then carefully pull out the Cassette Compartment.

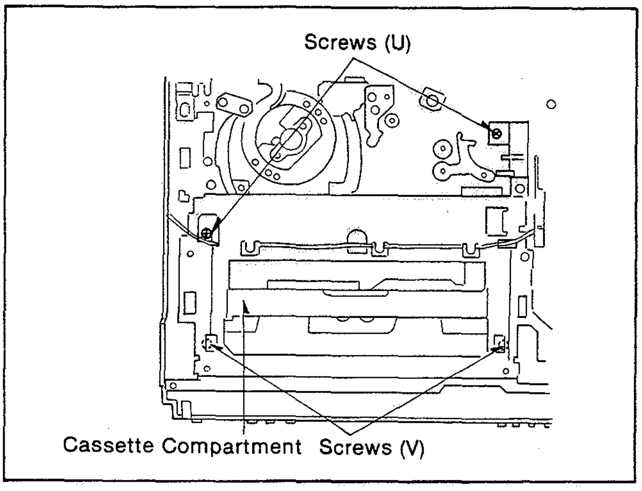

Screws (U)
Cassette Compartment
Screws (V)

FIG.D17

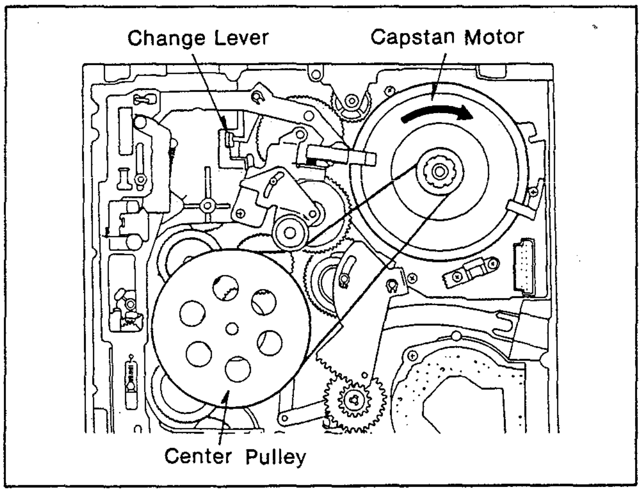

Change Lever
Capstan Motor
Center Pulley

FIG.D18

2-2-3. REINSTALLATION OF CASSETTE COMPARTMENT FROM STOP (FF/REW) POSITION

1. Set the mechanism condition to Stop (FF/REW) position by means of turning capstan motor (refer to 2–2–5.)
2. Remove the 2 screws (W) as shown in FIG. D19.

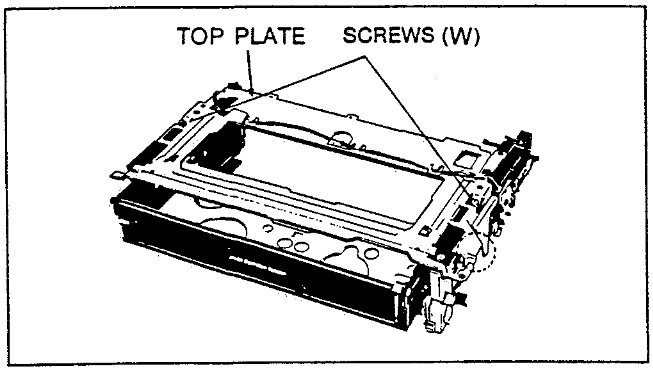

TOP PLATE
SCREWS (W)

FIG.D19

3. Take the top plate out.
4. Take the cassette Holder unit out as shown in FIG. D20.

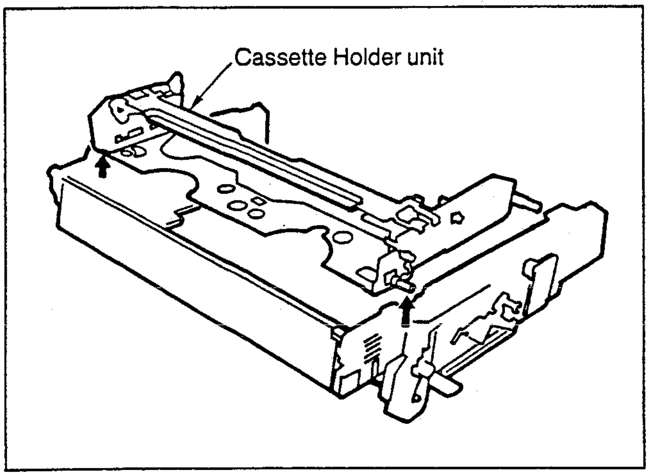

Cassette Holder unit

FIG. D20 Removal of cassette holder unit.

5. Press the sub wiper arm (X) to direction indicated by arrow so that the sub wiper arm (R) comes to cassette down position completely as shown in FIG. D21. and keep it.

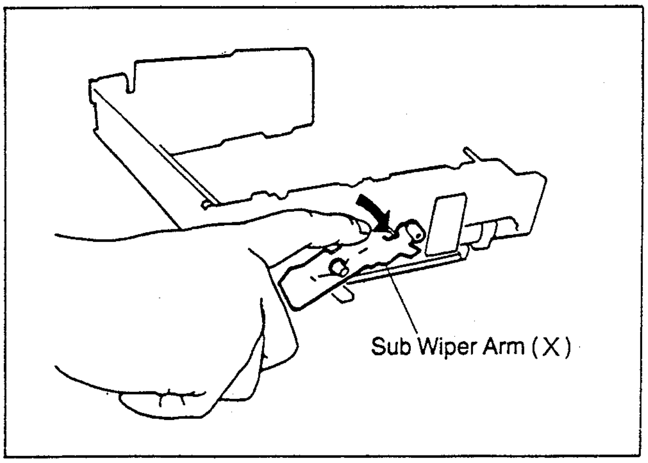

Sub Wiper Arm (X)

FIG.D21

6. Reinstall the cassette compartment (Without Cassette Holder) to chassis so that the first tip of Rack Gear A (1) comes to Marking slot of connection gear as shown in FIG.D22.

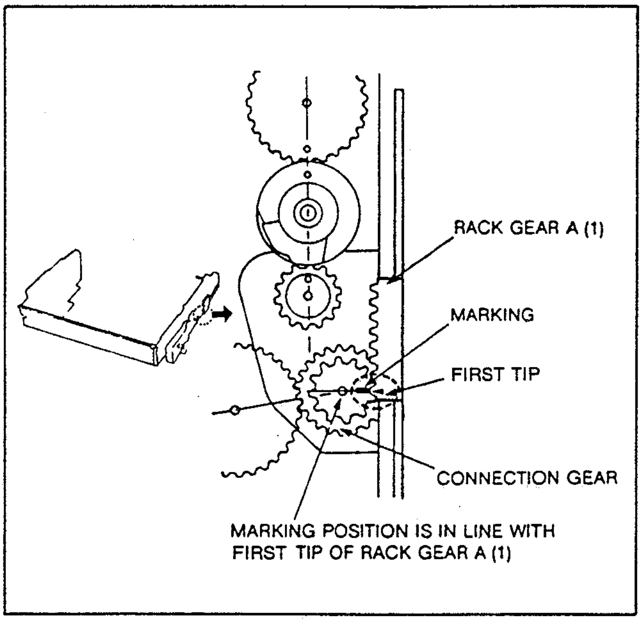

RACK GEAR A (1)
MARKING
FIRST TIP
CONNECTION GEAR
MARKING POSITION IS IN LINE WITH FIRST TIP OF RACK GEAR A (1)

FIG.D22

7. Tighten the 4 screws (Y) as shown in FIG. D23.

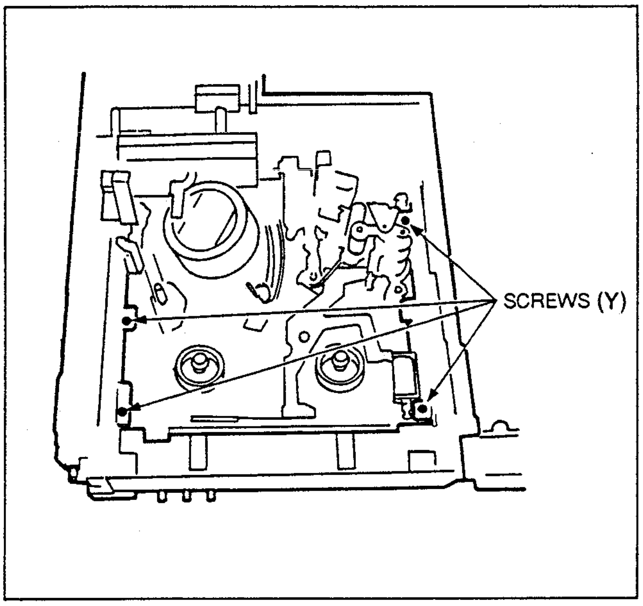


FIG.D23

8. Press the change lever and turn the capstan motor counter clockwise until mechanism is placed to Eject position as shown in FIG. D24.
9. Reinstall the cassette holder unit as just the reverse way of item 4, FIG. D20.
10. Reinstall the top plate as just the reverse way of item 3, FIG. D19.

2-2-4. HOW TO EJECT MANUALLY

If the electrical circuit is defective and the action of unloading and front unloading don't work properly, it is possible to eject manually as follows.

(1) Take out the Main AC.
(2) Release the Change Lever by pushing it to arrow mark direction as shown in FIG. D24.
(3) Turn the capstan motor to counter clockwise slowly until the Clutch Disk is locked.
(Clutch Disk is locked once in one rotation)
(4) Release the Change Lever again when the Cluch Disk is locked.
(5) Repeat the (2) and (3) until cassette is ejected.

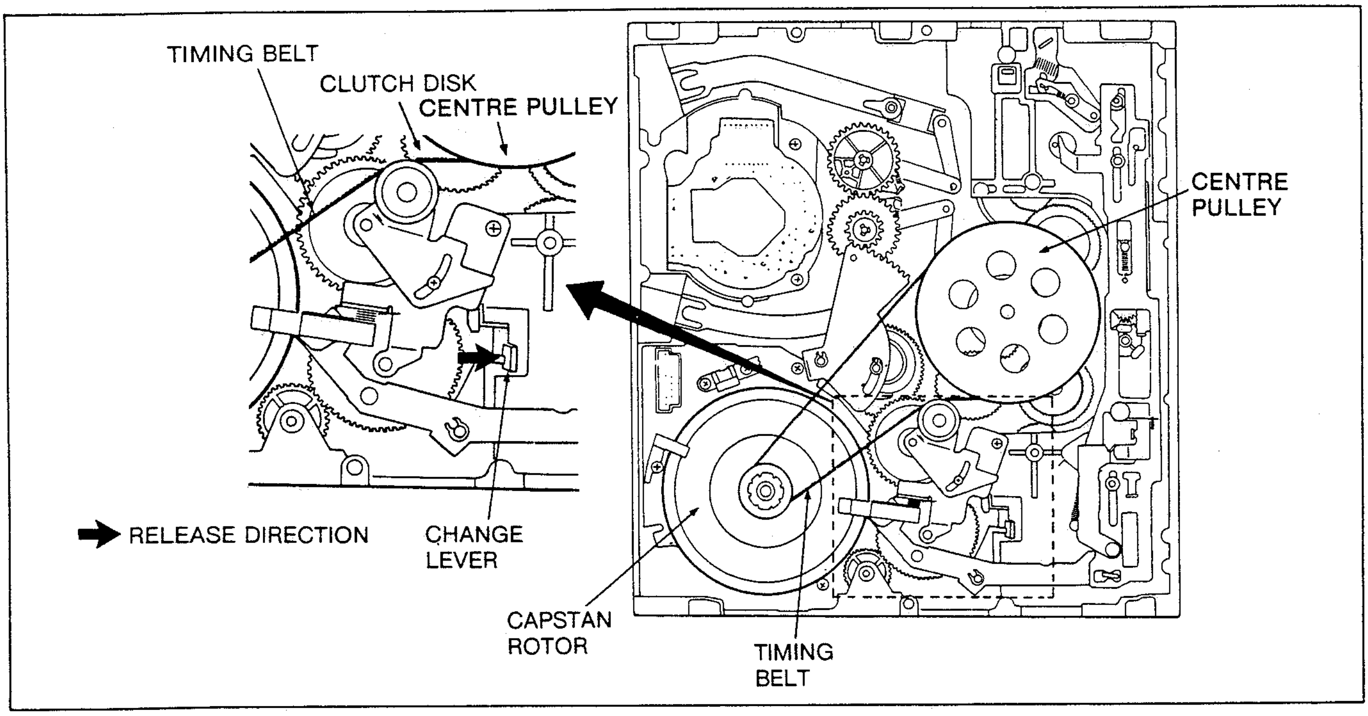


FIG. D24

2-2-5. HOW TO SEE THE MOVEMENT OF MECHANISM WITHOUT CASSETTE COMPARTMENT

Since capstan motor works as loading motor and front loading motor,Phase relationship between cassette compartment and mechanism is important, so Playback and FF/REW can not be performed even just only taking out the cassette compartment, however,if you want to see the mechanical movement without cassette compartment, it is possible as follows..

1. Take out the Main AC.
2. Take out the 5 pin flexible cable from P1503 on the cassette compartment and remove the cassette compartment from chassis.
Set the Mechanism to stop (FF/REW) mode as following items 3.,4.,5.,6.
3. Release the change lever by pussing it to arrow mark direction as shown in FIG. D24.
4. Turn the capstan motor to clockwise until the Clutch Disk is locked.
(Clutch Disk is locked once in one rotation)
5. Release the change lever again when Clutch Disk is locked.
6. Repeat item 4 and 5 until mechanism come to stop (sub loading) position as shown in FIG.D25. (STOP position is same as FF/REW position, therefore, when you rotate the capstan motor in STOP position, supply or Take up reel table is rotated corresponding with direction of rotation)
7. Turn the power on.
8. Now, any operation can be performed without cassette compartment.

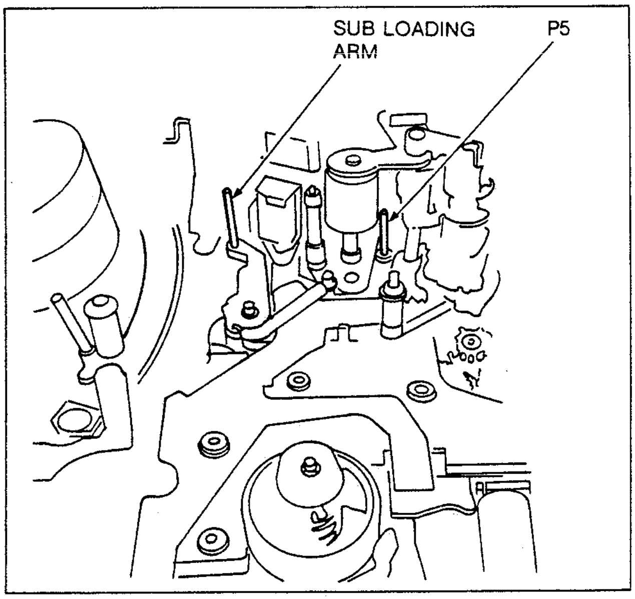


FIG.D25

Note:
1) Don't add the large torque to any gears not to break it.
2) When reinstalling the cassette compartment, refer to 2–2–3 Reinstallation of Cassette Compartment.
3) It is not possible to operate the mechanism from Eject position.

2-3. REPLACEMENT OF THE CYLINDER UNIT

2-3-1. REPLACEMENT OF THE D.D CYLINDER UNIT

Work with extreme care when removing or replacing the D.D. cylinder unit.
Do not touch the video head during servicing.

1. Remove the 2 screws (a) to take the Head Amp Pack Out.
2. Remove the 1 screw (b) to take the Earth Holder Unit Out.
3. Disconnect the 5P connector on the cylinder drive C.B.A.

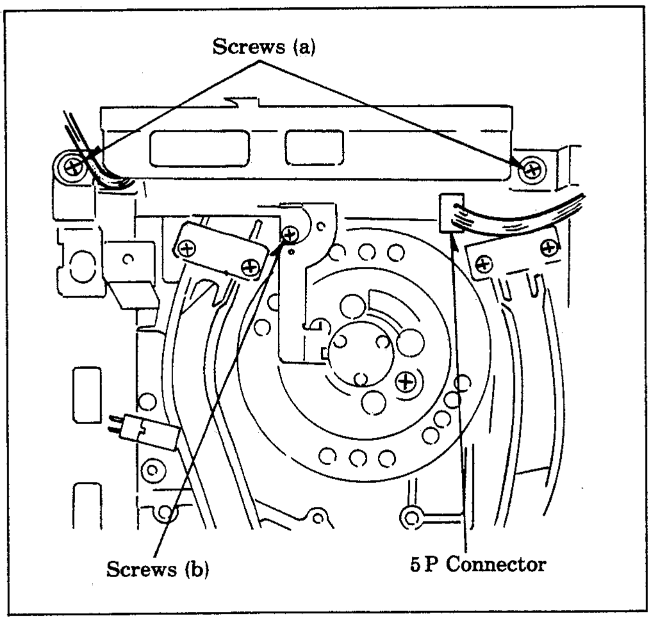


FIG.D26

4. Remove the 3 screws (c) to take the D.D. cylinder unit (with the cylinder drive C.B.A.) out.

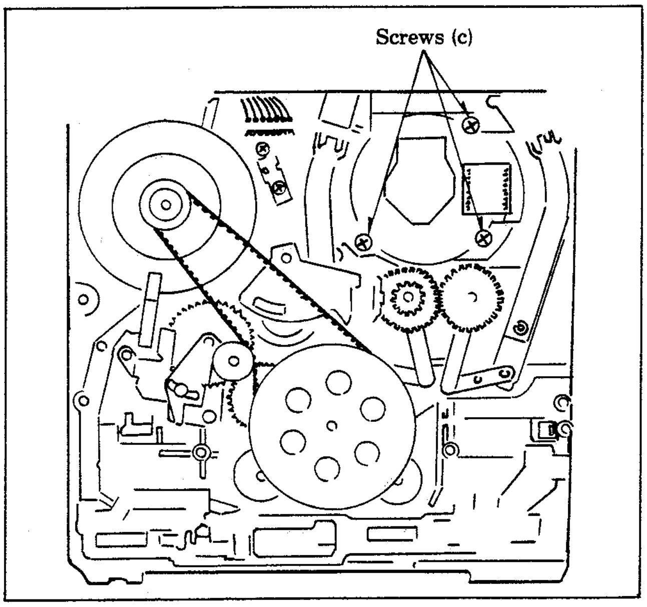


FIG.D27

Note:
Since there is very little clearance between the D.D. cylinder unit and the chassis, remove the D.D. cylinder unit gently and carefully.

5. Reinstall the new D.D.Cylinder Unit, tighten the 3 screws (c) and reinstall the Earth Holder Unit, tighten the 1 screw (b).
Then re-connect the Head Amp pack and 5P connector and tighten 2 screws (a).

Note:
(1) Gently rub the video head in direction of tape travel with Head cleaning stick.
(2) After replacement, confirm the performance.
If any further maintenance is required, perform "TAPE INTER-CHANGE ABILITY ADJUSTMENT".

2-3-2. REPLACEMENT OF THE CYLINDER DRIVE C.B.A.

1. Remove the D.D. cylinder unit referring the Item 2-3-1.
2. Place the D.D. cylinder unit upside down.
3. Unsolder the soldered portion (d) for shield case to take it out.
4. Unsolder the 18 soldered portions (e) indicated by an arrow wark (including 10 soldered portions inside of shield case).
5. Remove the 2 screws (f) to remove the cylinder drive C.B.A. unit.

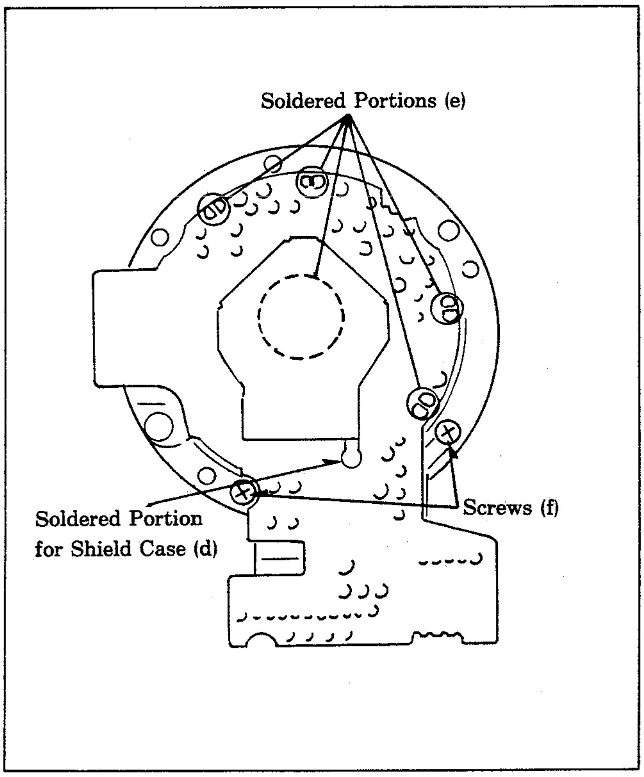


FIG.D28

6. Reinstalling is just reverse way of above procedures.

2-3-3. REPLACEMENT OF THE CYLINDER DRIVE IC

1. Remove the Cylinder Drive C.B.A. as item 2–3–2.
2. Remove the screw (g) to take the heat sink Plate out.
3. Unsolder the 18 soldered portions of the Cylinder Drive IC to take it out.
4. Reinstall the New IC with the care of Pins location.
5. Re–solder the 18 pins of the Cylinder Drive IC.
6. Reinstall the Cylinder Drive C.B.A. to the D.D. Cylinder Unit.

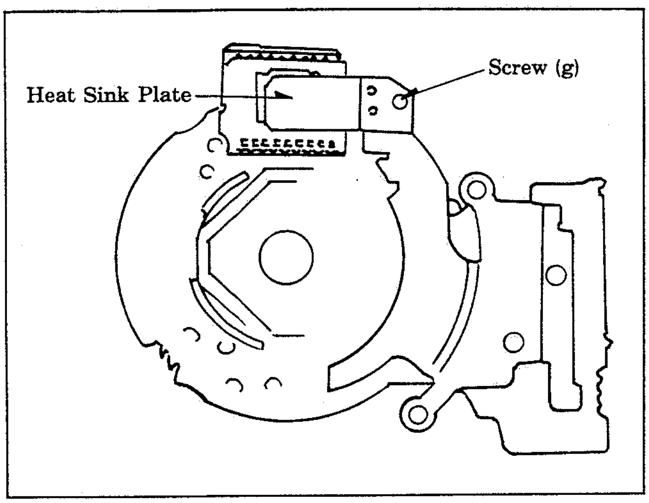

Screw (g)
Heat Sink Plate

FIG.D29

2-3-4. REPLACEMENT OF THE UPPER CYLINDER UNIT

1. Remove two screws as shown below.
2. Unsolder 12 soldered portions indicated by arrows on the C. Board.
3. Remove the Upper Cylinder Unit by lifting it upward.

Note:
Soldered portion can be easily removed by using solder sucking wire, etc.

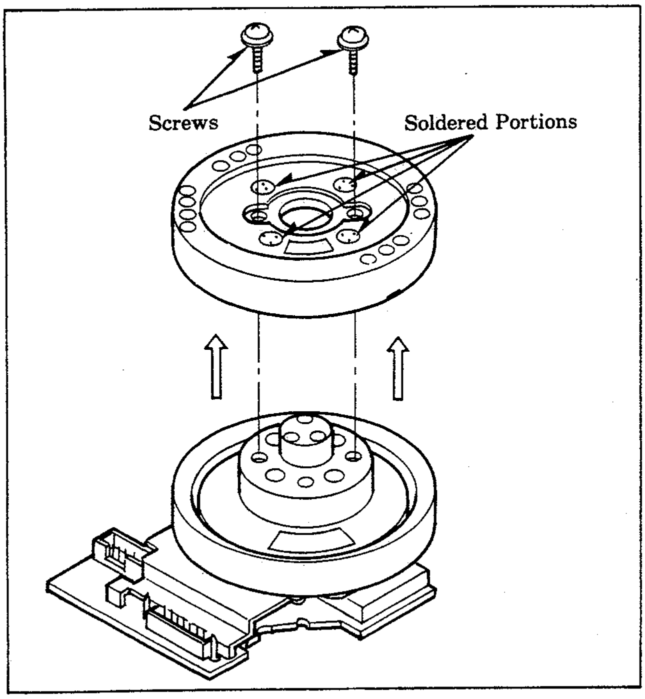

Screws
Soldered Portions

FIG.D30

4. The upper cylinder unit can be reinstalled by reversing the removal procedure, however, when the upper cylinder is reinstalling, be extremely carefull so that white portion of C. Board of the upper cylinder correctly matches the white portion of the bottom cylinder as shown below.

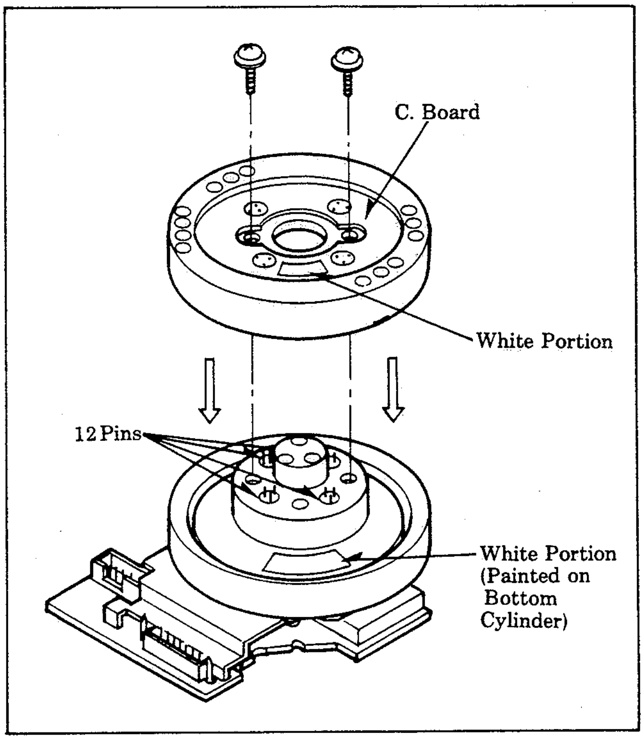

C. Board
White Portion
12 Pins
White Portion
(Painted on
Bottom
Cylinder)

FIG.D31

Note:
1). If the Upper Cylinder Unit is reversely installed, no colour would appear when playing back a pre–recorded tape.
2). Do not loosen the 3 small screws on the top of the cylinder as shown below .
If these 3 screws are loosend, Cylinder motor is broken and not restored.

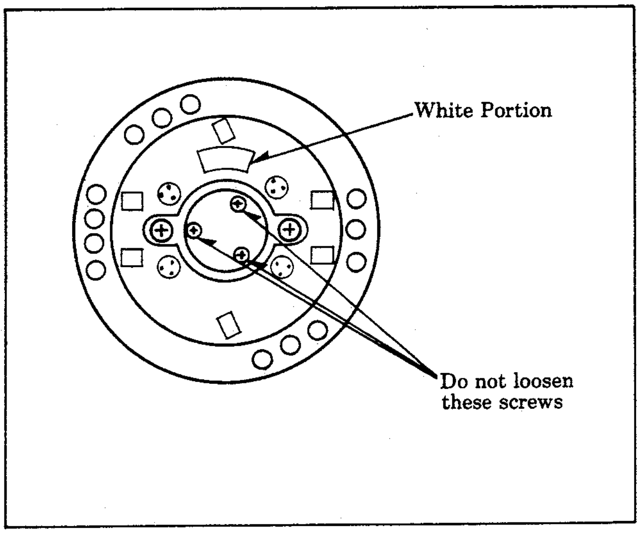

White Portion
Do not loosen
these screws

FIG.D32

2-4. ELECTRICAL ADJUSTMENT PROCEDURES

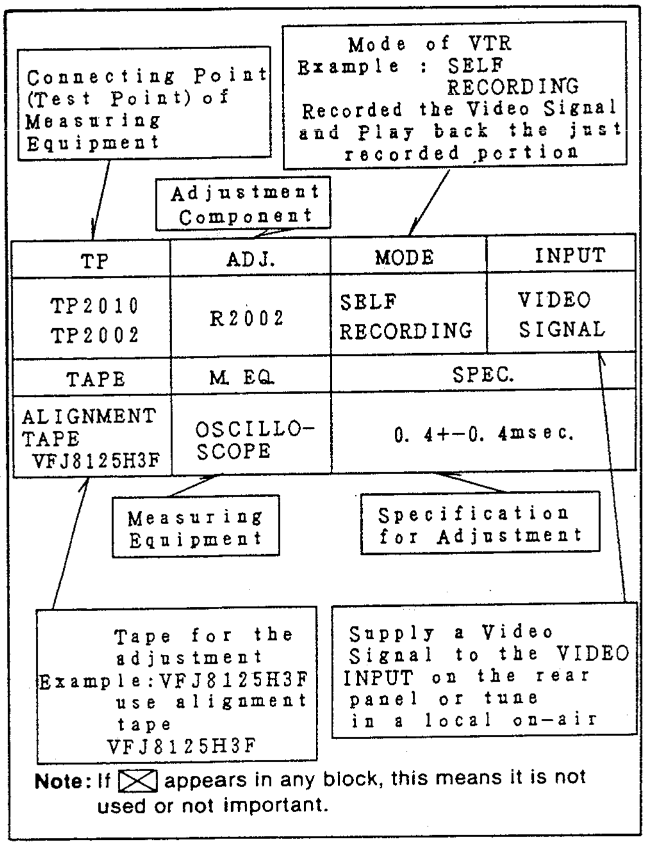
This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorders NV-D80EG/EV/B

2-4-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001~50V
2. Dual-Trace Oscilloscope
   Voltage range: 0.005~50V/div.
   Frequency Range: DC-30MHz
   Probes: 10:1
3. Frequency counter
   Frequency Range: 0~10MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0~500KHz
5. Video Sweep Generator
   Frequency Range: 0~10MHz
6. Colour Monitor TV
7. Plaastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)
9. Pattern Generator

2-4-2. HOW TO READ THE ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR Example : SELF RECORDING Recorded the Video Signal and Play back the just recorded portion
Adjustment Component
TP
ADJ.
MODE
INPUT
TP2010
TP2002
R2002
SELF RECORDING
VIDEO SIGNAL
TAPE
M. EQ.
SPEC.
ALIGNMENT TAPE VFJ8125H3F
OSCILLO-SCOPE
0. 4+-0. 4msec.
Measuring Equipment
Specification for Adjustment
Tape for the adjustment Example:VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air

Note: If ☒ appears in any block, this means it is not used or not important.

FIG.E1

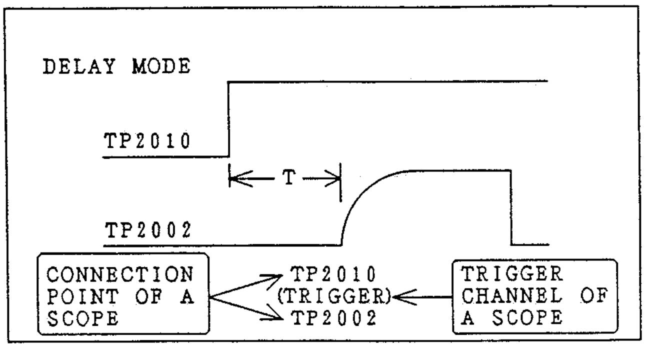

DELAY MODE
TP2010
T
TP2002
CONNECTION POINT OF A SCOPE
TP2010
(TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

FIG.E2

Note:
Before the electrical adjustment, set the VHS VTR as following conditions except for especial instructions in each adjustment item.

1) Tracking Control VR --- Centre FIX Position
2) Picture Sharpness VR -- Centre FIX Position
3) RF Signal Level SW
   (Except NV-D80EG) ---- HIGH
4) Colour / Test
   Signal SW ---- AUTO
5) Input
   Selector SW ---- LINE
6) Timer Record Button --- OFF
7) EDIT SW --- OFF
8) DBS SW (Only For NV-D80EG) --- OFF
9) Recording SW --- SP
10) Digital NR SW --- OFF
11) Audio Rec Level
    Control Selector --- AGC
12) Oscilloscope-Probe --- 10:1 Probe

SERVO SECTION

2-4-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY	☒
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0±0.5H	

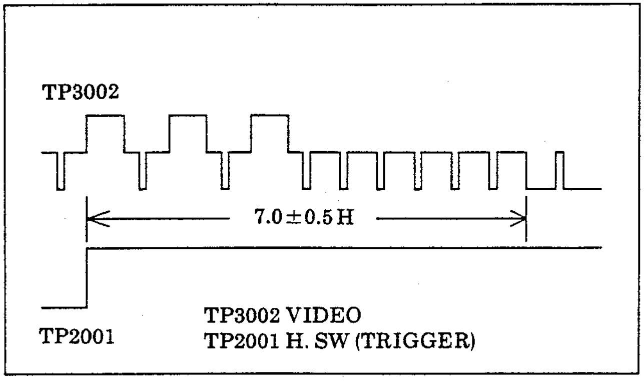

TP3002
7.0±0.5H
TP2001
TP3002 VIDEO
TP2001 H. SW (TRIGGER)

FIG.E3

2-4-4. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP2002	VR2002	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=1.6±0.4msec.	

1. Tracking VR is in centre fix position.
2. Record video signal.
3. Playback the just recorded portion.
4. Adjust VR2002 so that the period of "T" becomes 1.6 +− 0.4msec as shown below.

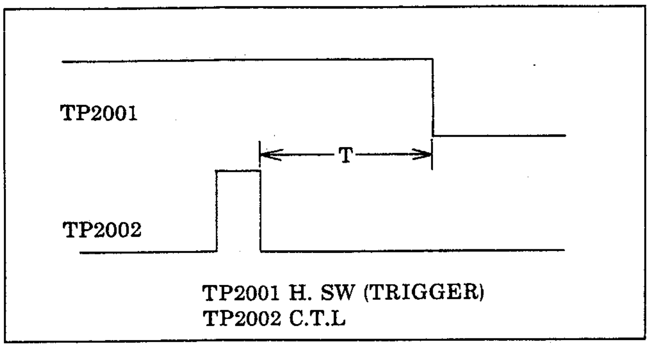


FIG.E4

2-4-5. SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2015	VR2013	STILL	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE (60min type)	FREQUENCY COUNTER	453±15Hz	

1. Record video signal and play back the just recorded portion. Then place the unit in STILL mode.
2. Connect the jumper wire between TP2025 and GND.
3. Connect the jumper wire between TP2026 and GND.
4. Connect the frequency counter to TP2015.
5. Adjust the VR2013 so that the reading of the Frequency Counter is 453 +− 15Hz.

2-4-6. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2020 TP2001	VR2011 (SP) VR2006 (LP)	SLOW	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=20.0±2.0msec. (SP) T=16.0±2.0msec. (LP)	

1. SLOW TRACKING VR is in centre fix position.
2. Play back the just recorded portion in SLOW mode.
3. Adjust the volume (VR2011, VR2006) as shown below.

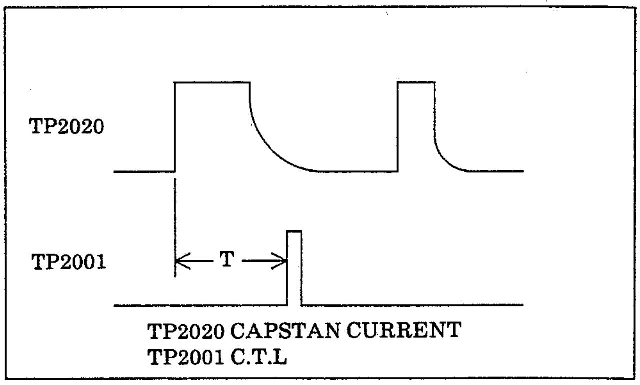


FIG.E5

2-4-7. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TV MONITOR	VR2010	STILL	VIDEO SIGNAL (MONO SCOPE)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR	NO V-DANCING	

1. Play back the just recorded portion and Place the unit in STILL mode.
2. Adjust VR2010 on the Servo pack so that the V–dancing does not appear on the TV Monitor as shown below.
3. Confirm that the V–dancing does not appear in cue and Review modes. If the V–dancing is appeared on the TV Monitor, this adjustment should be repeated again.

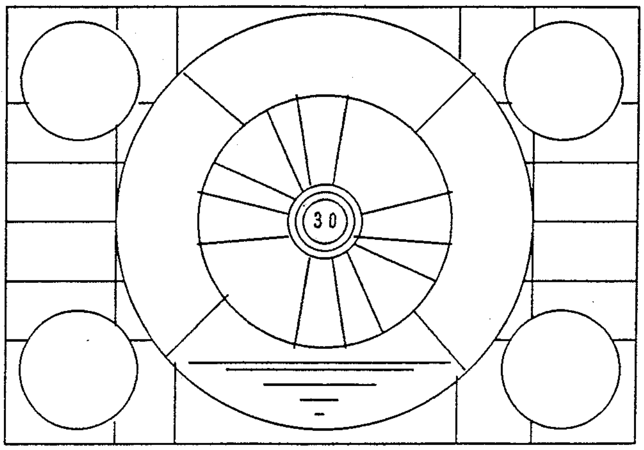


FIG.E6

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-4-8. CHROMINANCE & LUMINANCE RECORDING CURRENT ADJUSTMENT

* CHROMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP503 (HOT) TP504 (GND)	VR502	RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	24±3mVp-p	

1. Connect the oscilloscope to TP503 (HOT) and TP504 (GND).
2. Before Chrominance recording current adjustment Luminance recording current must be closed to observe the chrominance signal. (VR501 is minimum position.)
3. Adjust VR502 for 24+–3mVp–p as shown below.

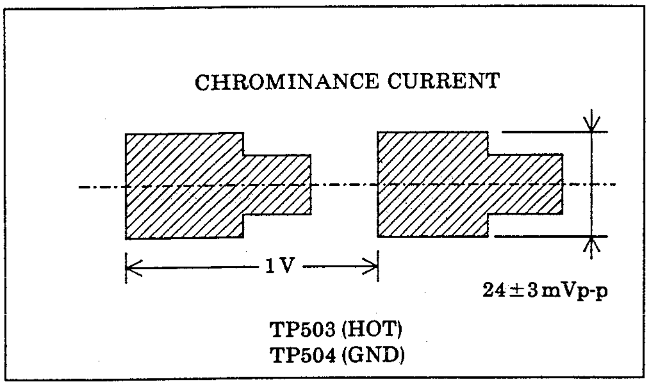


FIG.E7

* LUMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP503 (HOT) TP504 (GND)	VR501	RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	90±5mVp-p	

4. After chrominance recording current adjustment, adjust VR501 for 90+–5mVp–p as shown below.

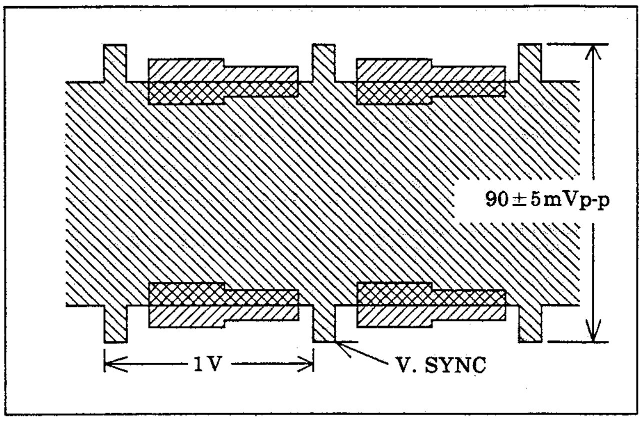
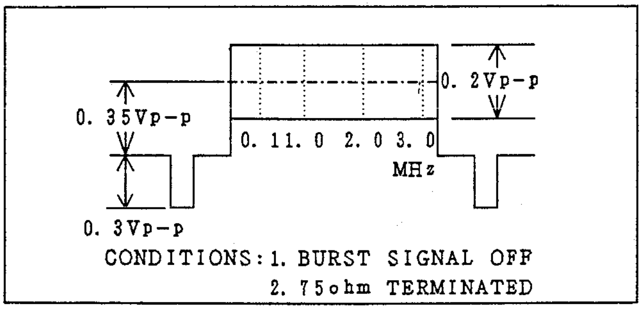


FIG.E8

2-4-9. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR3012 (SP) VR3013 (LP)	SELF RECORDING	VIDEO SWEEP
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIDEO SWEEP/ OSCILLO-SCOPE	A=0±1dB (SP) A=−2±1dB (LP)	

1. Set the sweep generator output as shown below.



CONDITIONS: 1. BURST SIGNAL OFF
2. 75ohm TERMINATED

FIG.E9

2. Picture VR is in centre fix position.
3. Play back the just recorded portion.
4. Adjust the volume (VR3012, VR3013) so that the level at 2MHz (A) becomes within specification comparing with the level at 0.1MHz as shown below.

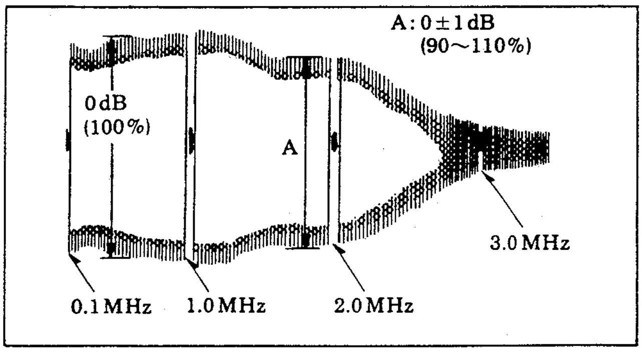


FIG.E10

2-4-10. HQ AMP GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR301	STOP	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	1.0±0.1Vp-p	

1. Set the Tape Speed Selector to "LP" position.
2. Connect the oscilloscope to video Line out (TP3002).
3. Adjust VR301 so that the video level is 1.0+−0.1Vp−p as shown below.

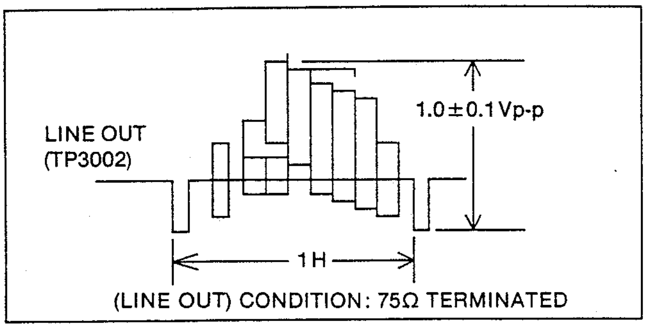

LINE OUT
(TP3002)
1.0±0.1Vp-p
1H
(LINE OUT) CONDITION: 75Ω TERMINATED

FIG.E11

2-4-11. YNR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-20	VR302	STOP	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Connect the oscilloscope to pin20 of IC302 on the Luminance & Chrominance C.B.A.
2. Adjust VR302 so that the waveform is minimized as shown below.

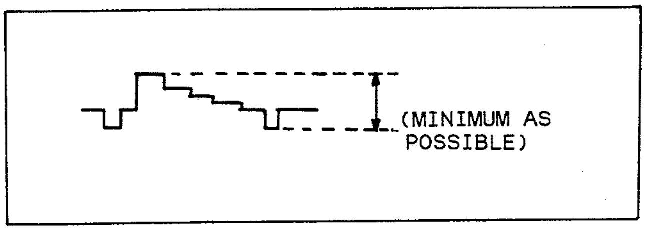

(MINIMUM AS POSSIBLE)

FIG.E12

Note:
Prior to the above adjustment, the HQ Amp Gain adjustment should be always completed.

2-4-12. CHROMA RECURSIVE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-7	VR801 VR802	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Play back the just recorded portion.
2. Connect the oscilloscope to pin7 of IC302 on the Luminance & Chrominance C.B.A.
3. Adjust VR801 and VR802 mutually so that the chrominance waveform is minimized as shown below.

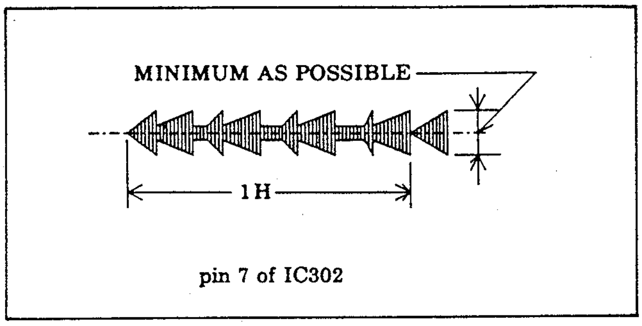

MINIMUM AS POSSIBLE
1H
pin 7 of IC302

FIG.E13

2-4-13. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR803	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.55±0.05Vp-p	

1. Play back the just recorded portion.
2. Adjust VR803 for 0.55+−0.05Vp−p as shown below.

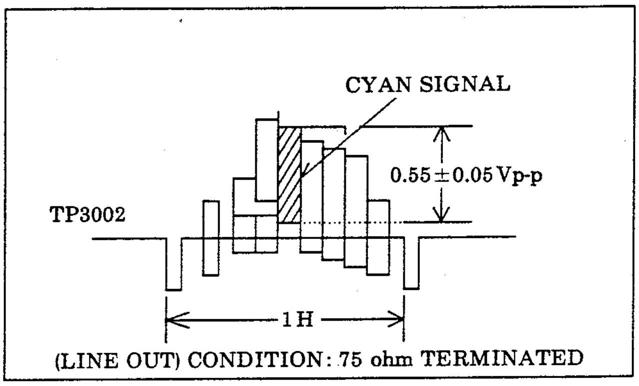

CYAN SIGNAL
0.55±0.05Vp-p
TP3002
1H
(LINE OUT) CONDITION: 75 ohm TERMINATED

FIG.E14

2-4-14. SECAM KILLER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC851-11	T851	SELF RECORDING	SECAM VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	MINIMUM AS POSSIBLE	

Note:
To make this adjustment, please set the SECAM Pack as shown below.

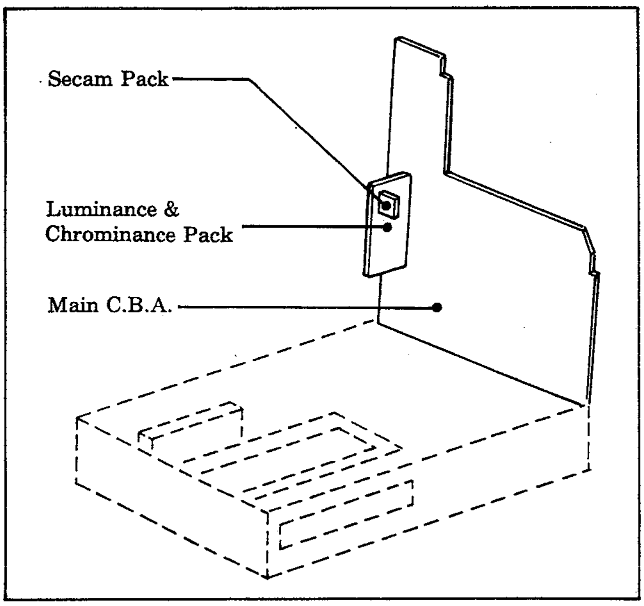


FIG.E15

1. First, remove the SECAM Pack from the Luminance & Chrominance Pack.
   Next, reinstall the SECAM Pack to Luminance & Chrominance Pack on foil side.
   Finally solder the soldering portions of the SECAM Pack.

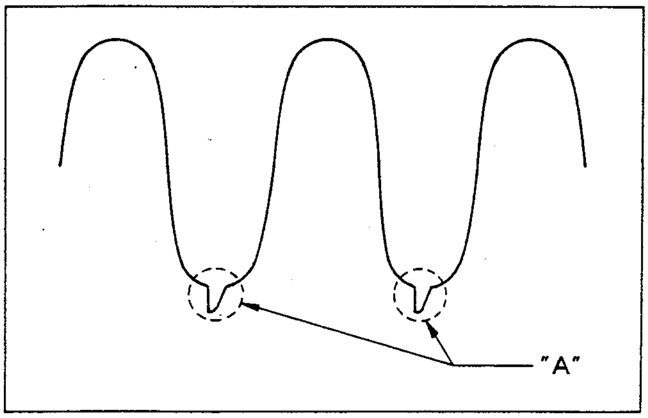


FIG.E16

2. Adjust T851 so that the points "A" becomes maximum on the waveform.

NORMAL AUDIO SECTION

2-4-15. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	2.6±0.1mVrms	

2-4-16. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (TP4001)	VR4001	SELF RECORDING	1kHz, −10dB AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E-E LEVEL=−8±2dB PLAYBACK LEVEL= E-E LEVEL±0.5dB	

1. Set the Audio Mode Selector Playback to NORMAL position. (Both the Left and Right Indicators are not lit.
2. Playback the just recorded portion.
3. Adjust VR4001 so that the level of the playback waveform becomes E–E level +– 0.5dB.

Note:
1. Befor this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.
2. Video signal must be connected to video input.

FM AUDIO SECTION

2-4-17. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR4004 (L) VR4005 (R)	STOP	1kHz, −10dB
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GENERATOR		

1. Set the Audio Playback Mode Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Set the AUDIO Rec Level Control Selector to MANUAL position.

3. Set the output of the Signal Generator to 1KHz and −10dB, and supply it to both Input Jacks (L) and (R).
   Next, Adjust the recording volume with the Audio Rec Level Controls so that the audio outputs are 400mVp−p at both Output Jacks (L) and (R).
4. Adjust VR4004 so that the 0dB indicator just lights up on the L−ch level meter as shown below.
5. Adjust VR4005 so that the 0dB indicator just lights up on the R−ch level meter as shown below.

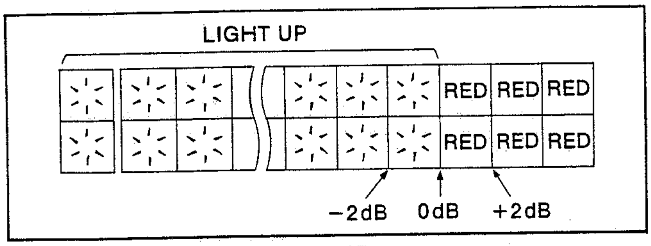


FIG.E17

2-4-18. FM AUDIO RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507 (HOT) SHIELD CASE (GND)	VR4503	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	220±10mVp-p	

1. Set the Audio Playback Mode Selector to "STEREO" position. (Both the Left and Right Indicators are lit.)
2. Connect the OSCILLOSCOPE to TP4507(HOT) and SHIELD CASE(GND).
3. Adjust VR4503 so that the Audio recording current become 220+−10mVp−p as shown below.

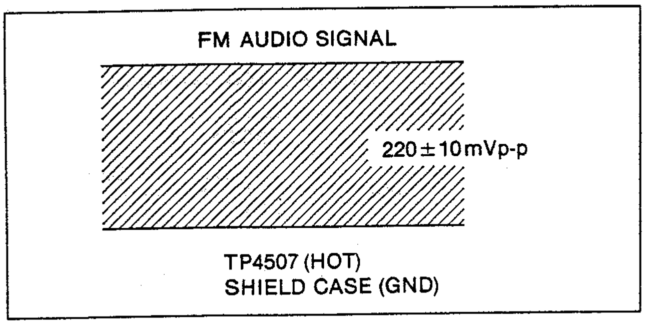


FIG.E18

2-4-19. AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4511 TP2001	VR4510	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	$T=T2-\left(\frac{T2-T1}{2}\right)$ msec.	

1. Play back the alignment tape (VFJ8125H3F).
2. Connect the oscilloscope to TP4511 and TP2001.
3. Play back the just recorded portion.
4. Adjust VR4510 while listening to the stereo playback sound.
   (1) Confirm the "T2" time when the abnormal sound just occurs during turning clockwise on VR4510.
   (2) Confirm the "T1" time when the abnormal sound just occurs during turnig counter clockwise on VR4510.
   (3) Adjust VR4510 so that the falling edge "T" of Audio H.SW pulse becomes the center portion of the both "T2" and "T1".

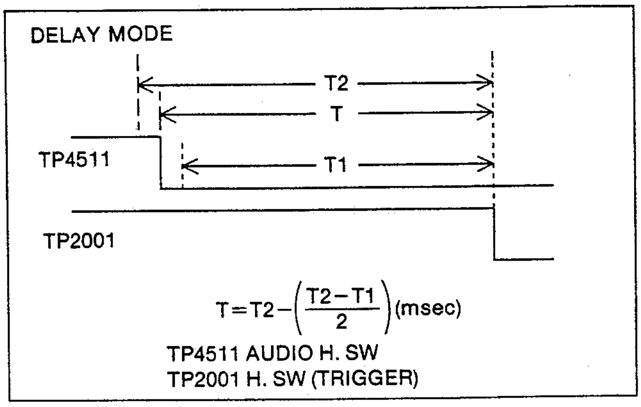


FIG.E19

2-4-20. AUDIO MUTING ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR4505	SELF RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE			

Note:
Before this adjustment "Tape Interchangeability Adjustment" must be completed.

1. Set Audio Playback Mode Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Set the Audio Level Meter Selector to Tracking mode.
3. Set the Tracking VR so that the Audio Tracking level becomes maximum.
4. Preadjust VR4505 until the Hi−Fi indicator on the front panel display turns the NORMAL indication.
5. Then slowly adjust VR4505 where the STEREO indication just lights up.
6. Confirm that the abnormal sound does not contain in the playback Hi−Fi sound.

2-4-21. FM AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507 (HOT) SHIELD CASE (GND)	VR4501 (L) VR4509 (R)	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	1400±3kHz (L) 1800±3kHz (R)	

2-4-22. AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4502-⑤ (L) IC4502-㉖ (R)	VR4502 (L) VR4507 (R)	RECORDING	1kHz, −10dB (316mVp-p) AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ D.V.M.	280mVp-p	

1. Set the Audio Rec Level Control Selector to MANUAL position. (Both the left and Right Indicators are not lit.)
2. Set the output of the Signal generator to 1KHz and −10dB, and supply it to both input Jacks (L) and (R).
   Next, adjust the recording with the Audio Rec Level Controls so that the audio outputs are 400mVp−p at both Output Jacks (L) and (R).
3. Adjust VR4502 to 280mVp−p at IC4502−5 on FM AUDIO C.B.A. for L−Channel.
4. Adjust VR4507 to 280mVp−p at IC4502−26 on FM AUDIO C.B.A. for R−Channel.

2-4-23. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR4504 (L) VR4508 (R)	SELF RECORDING	SIGNAL GENERATOR (1kHz, −10dB)/ VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M	E-E LEVEL = −8±2dB PLAYBACK LEVEL = E-E LEVEL ±0.5dB	

Note:
Before this adjustment, Tape Interchangeability Adjustment" must be completed.

1. Play back the just recorded portion.
2. Adjust VR4504and VR4508 volumes one by one, so that the level of the playback becomes E−E level+−0.5dB.

DIGITAL SECTION

2-4-24. JUMP VCO FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3304-10	VR3312	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	31.25±0.3kHz	

1. Connect a jumper wire between IC3304−8 and 9.
2. Connect the Frequency Counter to pin 10 of IC3304 through the amplifier as shown below.

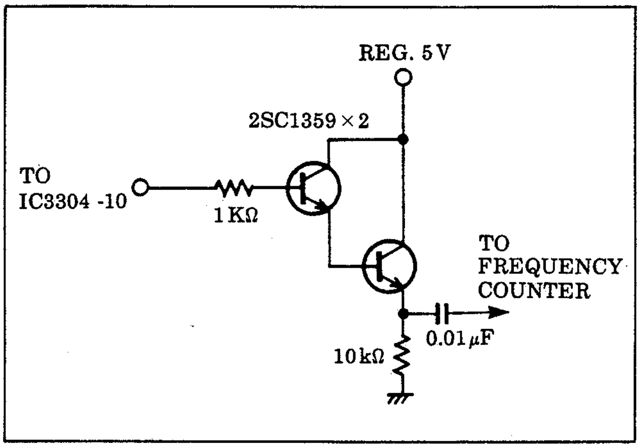


FIG.E20 Amplifier Circuit

3. Adjust VR3312 so that the reading of Frequency Counter is 31.25+−0.3KHz.

2-4-25. CHROMA DELAY LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR3309	DIGITAL STILL	VIDEO SIGNAL (COLOR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK	OSCILLO-SCOPE	FLICKER IS MINIMIZED (GREEN)	

1. Place the unit in Digital Still mode by using Porgrammable Remote Control Unit.
2. Connect the Oscilloscope to Video Line Output.
3. Adjust VR3309 so that the flickering of the chrominance signal is minimized as possible.

Note:
The flickering can be observed especially at the green part of the chrominance signal.

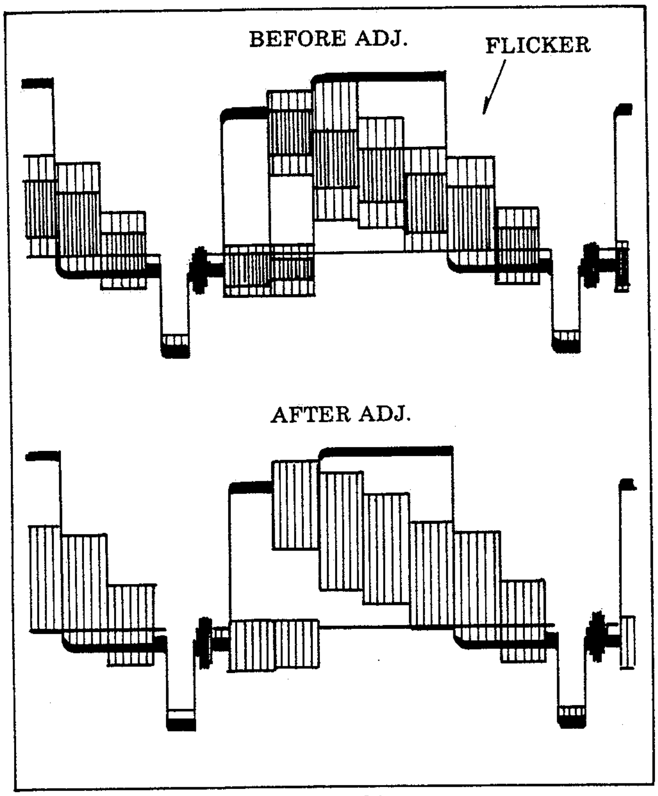

BEFORE ADJ.
FLICKER
AFTER ADJ.

FIG.E21

2-4-26. H-SYNC MMV1 ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC9501-12 IC9501-13	VR9501	STOP	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	3±0.2μsec.	

1.Connect thee Oscilloscope to IC9501−12(CH−1) and IC9501−13(CH−2).
2.Adjust VR9501 to 3+−0.2usec. as shown below.

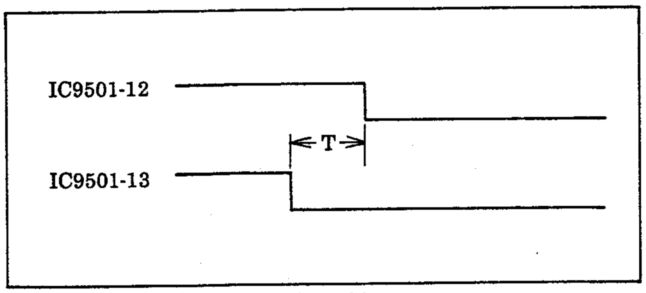

IC9501-12
T
IC9501-13

FIG.E22

2-4-27. H-SYNC MMV2 ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC9503-4 IC9503-5	VR9502	STOP	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	3±0.2μsec.	

1.Connect the Oscilloscope to IC9503−4(CH−1) and IC9503−5(CH−2).
2.Adjust VR9502 to 3+−0.2usec. as shown below.

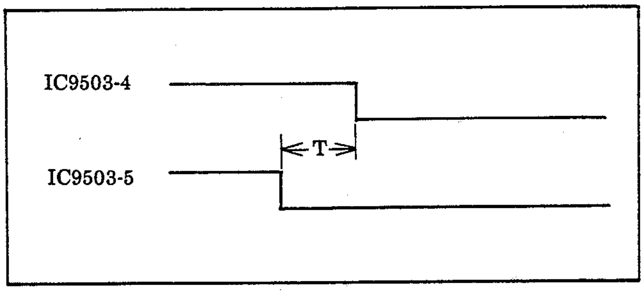
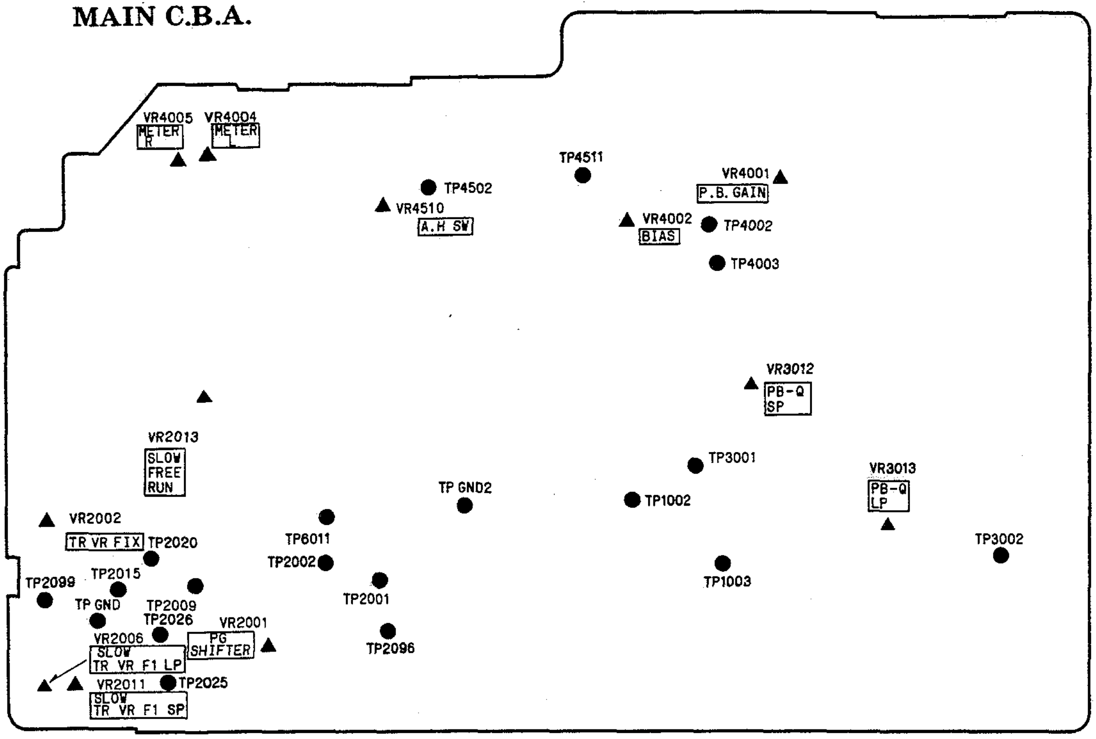

IC9503-4
T
IC9503-5

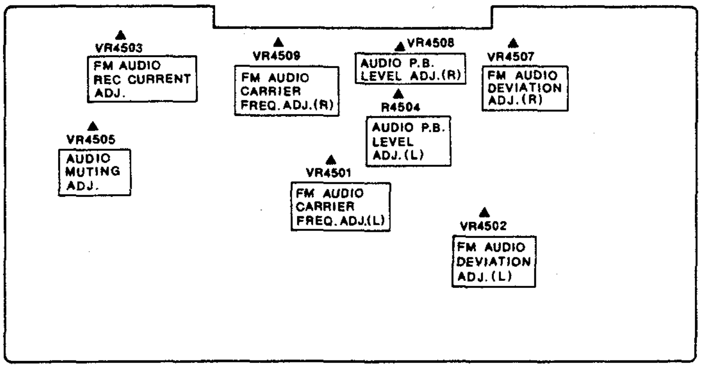
FIG.E23

LOCATION OF TEST POINTS & CONTROLS — 1 —

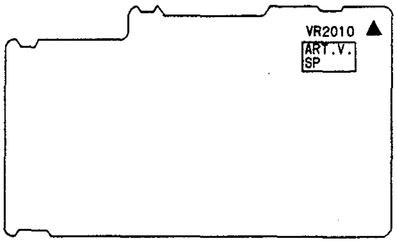
MAIN C.B.A.


VR4005
METER R
VR4004
METER L
TP4502
VR4510
A.H SW
TP4511
VR4001
P.B. GAIN
VR4002
BIAS
TP4002
TP4003
VR3012
PB-Q SP
VR2013
SLOW FREE RUN
TP3001
VR3013
PB-Q LP
TP GND2
TP1002
VR2002
TR VR FIX
TP2020
TP6011
TP2002
TP3002
TP2099
TP2015
TP GND
TP2009
TP2026
TP2001
TP1003
VR2001
VR2006
PG SHIFTER
SLOW TR VR F1 LP
TP2096
VR2011
TP2025
SLOW TR VR F1 SP

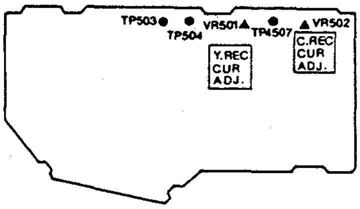
FM AUDIO C.B.A.


VR4503
FM AUDIO REC CURRENT ADJ.
VR4509
FM AUDIO CARRIER FREQ.ADJ.(R)
VR4508
AUDIO P.B. LEVEL ADJ.(R)
VR4507
FM AUDIO DEVIATION ADJ.(R)
R4504
AUDIO P.B. LEVEL ADJ.(L)
VR4505
AUDIO MUTING ADJ.
VR4501
FM AUDIO CARRIER FREQ.ADJ.(L)
VR4502
FM AUDIO DEVIATION ADJ.(L)

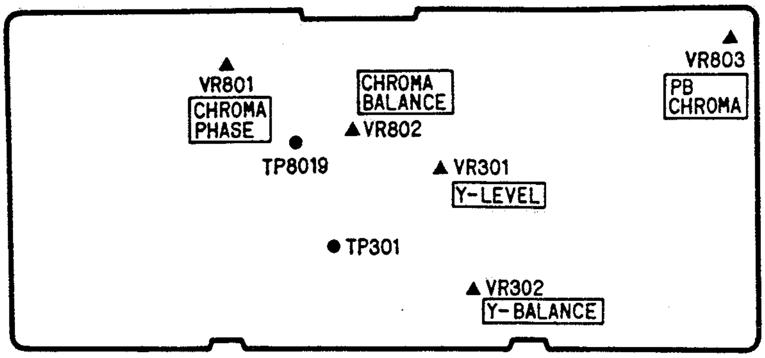
SERVO PACK C.B.A.


VR2010
ART.V. SP

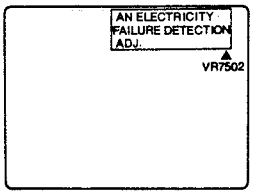
HEAD AMP C.B.A.


TP503
TP504
VR501
TP4507
VR502
Y.REC CUR ADJ.
C.REC CUR ADJ.

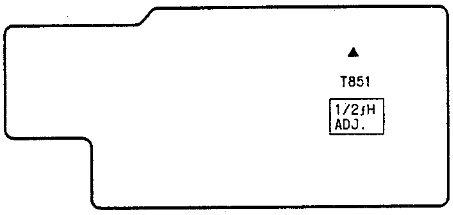
LUMINANCE & CHROMINANCE PACK C.B.A.


VR801
CHROMA PHASE
TP8019
CHROMA BALANCE
VR802
VR803
PB CHROMA
VR301
Y-LEVEL
TP301
VR302
Y-BALANCE

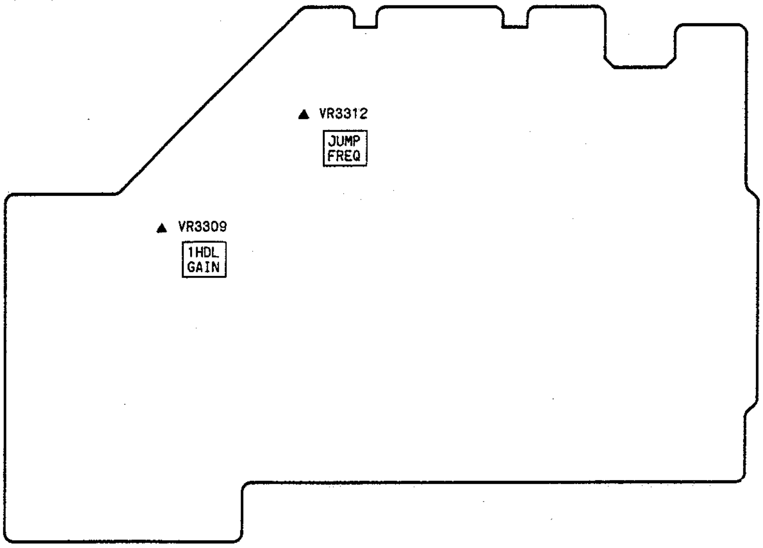
CH SELECT PACK C.B.A.


AN ELECTRICITY FAILURE DETECTION ADJ.
VR7502

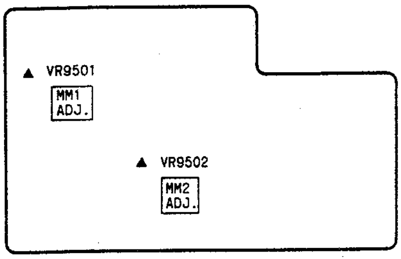
SECAM PACK C.B.A.


T851
1/2fH ADJ.

SUB DIGITAL C.B.A.

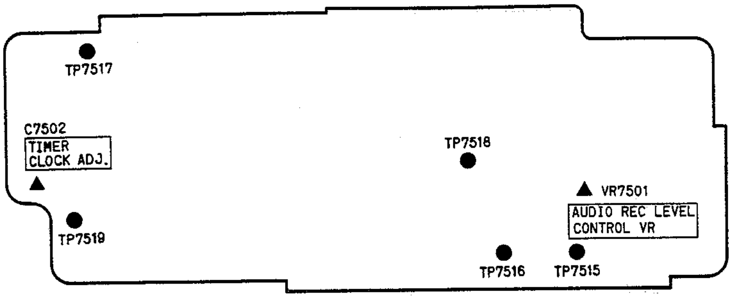

VR3312
JUMP FREQ
VR3309
1HDL GAIN

SYNC GENERATOR C.B.A.

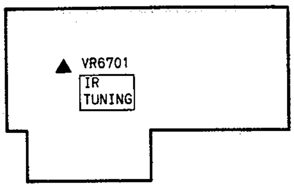

VR9501
MM1 ADJ.
VR9502
MM2 ADJ.

LOCATION OF TEST POINTS & CONTROLS — 2 —

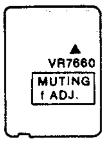
TIMER C.B.A.


TP7517
C7502
TIMER CLOCK ADJ.
TP7518
VR7501
AUDIO REC LEVEL CONTROL VR
TP7519
TP7516
TP7515

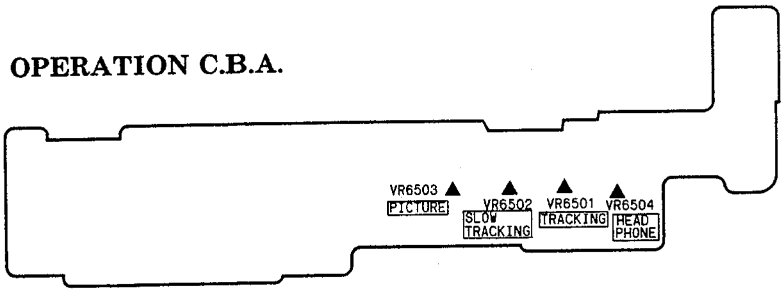
IR RECEIVER C.B.A.

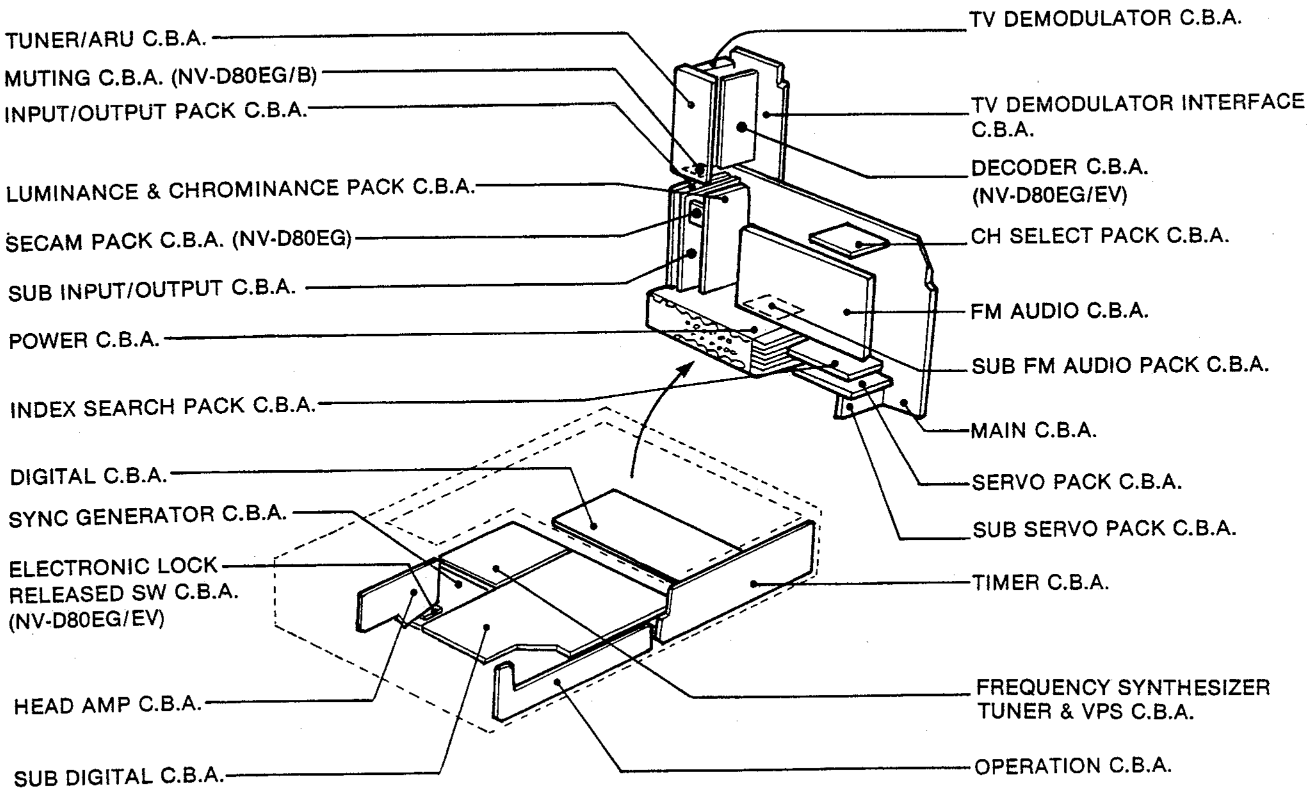

VR6701
IR TUNING

MUTING C.B.A.

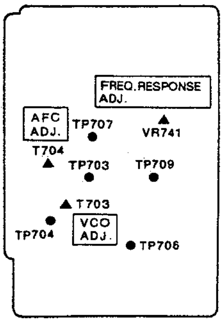

VR7660
MUTING f ADJ.

OPERATION C.B.A.

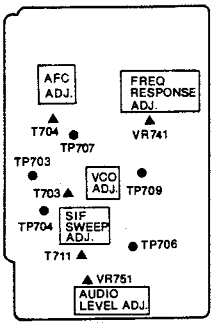

VR6503
PICTURE
VR6502
SLOW TRACKING
VR6501
TRACKING
VR6504
HEAD PHONE


TUNER/ARU C.B.A.
MUTING C.B.A. (NV-D80EG/B)
INPUT/OUTPUT PACK C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
SECAM PACK C.B.A. (NV-D80EG)
SUB INPUT/OUTPUT C.B.A.
POWER C.B.A.
INDEX SEARCH PACK C.B.A.
DIGITAL C.B.A.
SYNC GENERATOR C.B.A.
ELECTRONIC LOCK RELEASED SW C.B.A. (NV-D80EG/EV)
HEAD AMP C.B.A.
SUB DIGITAL C.B.A.
TV DEMODULATOR C.B.A.
TV DEMODULATOR INTERFACE C.B.A.
DECODER C.B.A. (NV-D80EG/EV)
CH SELECT PACK C.B.A.
FM AUDIO C.B.A.
SUB FM AUDIO PACK C.B.A.
MAIN C.B.A.
SERVO PACK C.B.A.
SUB SERVO PACK C.B.A.
TIMER C.B.A.
FREQUENCY SYNTHESIZER TUNER & VPS C.B.A.
OPERATION C.B.A.

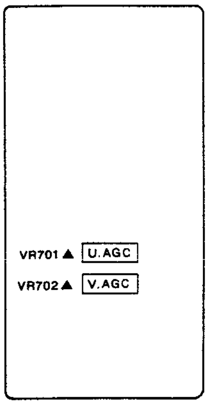
TV DEMODULATOR C.B.A. (NV-D80EG/EV)


FREQ.RESPONSE ADJ.
AFC ADJ.
TP707
VR741
T704
TP703
TP709
T703
TP704
VCO ADJ.
TP706

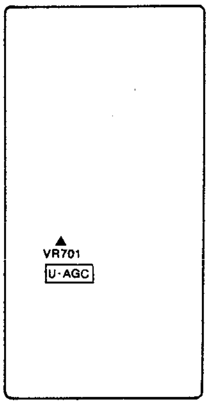
TV DEMODULATOR C.B.A. (NV-D80B)


AFC ADJ.
FREQ RESPONSE ADJ.
T704
TP707
VR741
TP703
VCO ADJ.
TP709
T703
TP704
SIF SWEEP ADJ.
TP706
T711
VR751
AUDIO LEVEL ADJ.

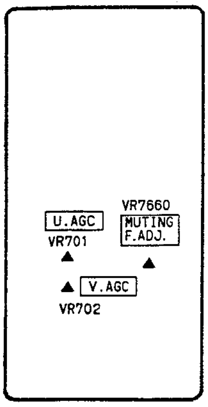
TUNER/ARU C.B.A. (NV-D80EG)


VR701
U.AGC
VR702
V.AGC

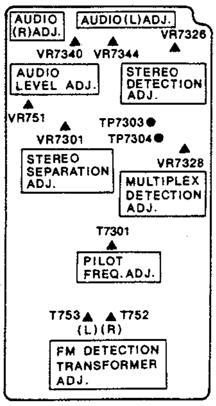
TUNER/ARU C.B.A. (NV-D80B)



TUNER/ARU C.B.A. (NV-D80EV)


VR7660
U.AGC
MUTING F.ADJ.
VR701
V.AGC
VR702

DECODER C.B.A.


AUDIO (R)ADJ.
AUDIO (L)ADJ.
VR7326
VR7340
VR7344
AUDIO LEVEL ADJ.
STEREO DETECTION ADJ.
VR751
TP7303
VR7301
TP7304
VR7328
STEREO SEPARATION ADJ.
MULTIPLEX DETECTION ADJ.
T7301
PILOT FREQ.ADJ.
T753
T752
(L)
(R)
FM DETECTION TRANSFORMER ADJ.

TIMER SECTION

2-4-28. AN ELECTRICITY FAILURE DETECTION ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7551-(12)	VR7502		
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE/ 2 DC POWER SUPPLIES		

Note:
1) Do not connect the AC power plug.
2) Make a short circuit at C7571 to discharge.
(refer to the Technical Information)

1. Set the voltage of the DC power supply (A) for 4.6+−0.05V and supply to IC7551−8 (+) and GND (−).
2. Set the voltage of the DC power supply (B) for 45+−1V and supply to the Channel Select Pack C.B.A. −15.
3. Turn the VR7502 until the voltage at IC7551−(12) is High Level.
4. Turn the VR7502 slowly until the voltage at IC7551−(12) is Low Level (0V).
5. Change the voltage of the DC power supply (A) from 4.6+−0.05V to 4.8+−0.05V.
6. Confirm the voltage at IC7551−(12) is High Level.

2-4-29. TIMER CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7501-(41)	C7502		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	3906.25±0.008μs	

Note:
1) Do not connect the AC power plug.
2) Make a short circuit at C7571 to discharge.
(refer to the Technical Information)

1. Set the voltage of the DC power supply for 5.8V+−0.1V and supply it to P7506−6 (+) and GND (−).
2. Connect a jumper wire between P7506−5 and GND.
3. Connect the frequency counter to IC7501−41.
4. Adjust C7502 for 3906.25us+−0.008us.

2-4-30. TIMER MUTING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7651-(4)	VR7660		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	15.625±0.05kHz	

Note:
1) To make this adjustment, please prepare the following circuit as shown below.
2) Make a short circuit at R7655.

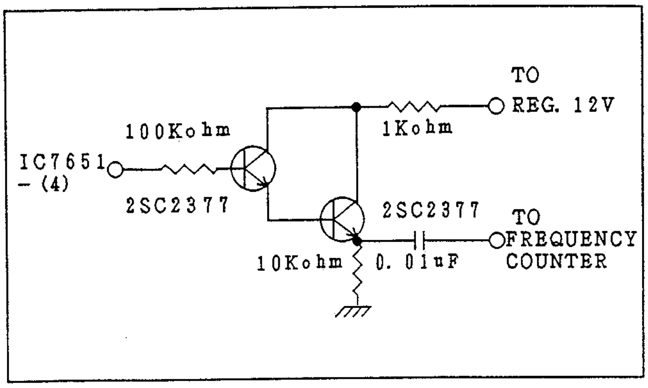

TO
REG. 12V
100Kohm
1Kohm
IC7651
- (4)
2SC2377
2SC2377
TO
FREQUENCY
COUNTER
10Kohm
0. 01uF

FIG.E24

TV DEMODULATOR SECTION

Since different models, such as NV-D80EG/EV/B are combined into one procedure, pay attention not to adjust different specifications.

2-4-31. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. VIF SWEEP GENERATOR with the Trap Adjustor
   ....38.9MHz (EG/EV)
   ....39.5MHz (B)
2. SIF SWEEP GENERATOR
   ....5.5MHz +- 150KHz (EG/EV)
   ....6.0MHz +- 150KHz (B)
3. CW OSCILLATOR
   ....38.9MHz +- 100KHz (EG/EV)
   ....39.5MHz +- 100KHz (B)
4. MONITOR SCOPE
5. OSCILLOSCOPE
6. DIGITAL VOLT METER
7. TUNING AMPLIFIER
8. MULTI VOICE MODULATOR (M.V.M)

Note:
To make this adjustment, set the Demodulator Unit as shown below.

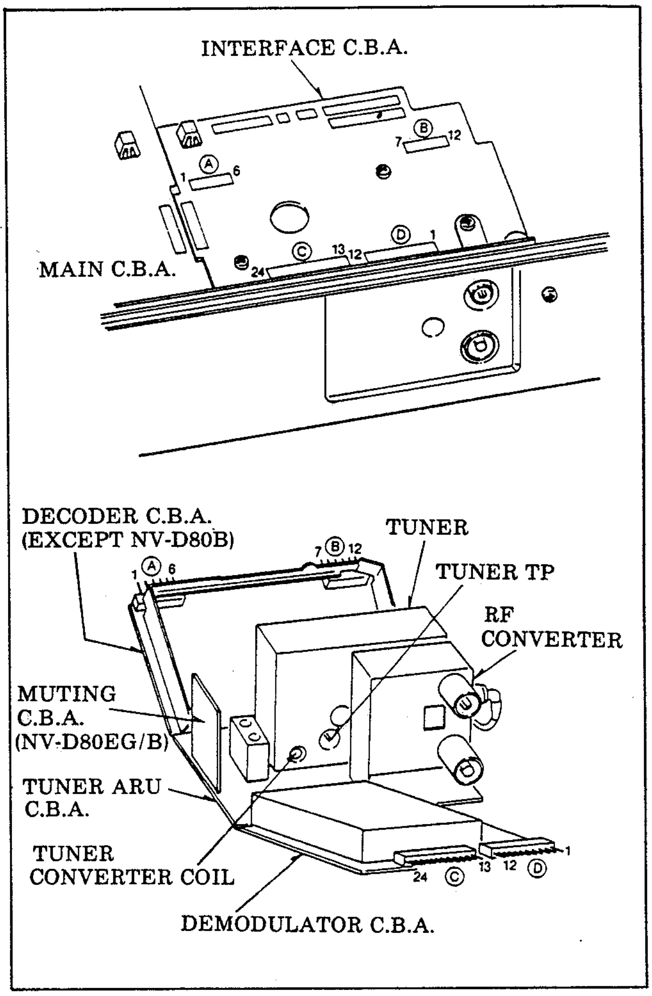
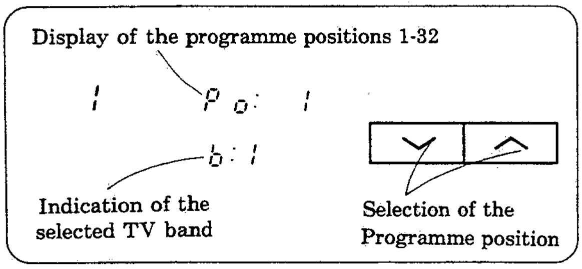

INTERFACE C.B.A.
Ⓑ
7
12
Ⓐ
1
6
MAIN C.B.A.
24
Ⓒ
13
12
Ⓓ
1
DECODER C.B.A.
(EXCEPT NV-D80B)
TUNER
7 Ⓑ 12
1 Ⓐ 6
TUNER TP
RF
CONVERTER
MUTING
C.B.A.
(NV-D80EG/B)
TUNER ARU
C.B.A.
TUNER
CONVERTER COIL
24 Ⓒ 13 12 Ⓓ 1
DEMODULATOR C.B.A.

FIG.E25

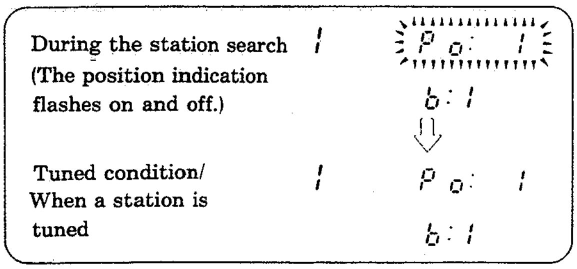
First, remove the Demodulator Unit (Tuner, RF Converter ,Muting C.B.A,TV Demodulator C.B.A,Tuner ARU C.B.A and Decoder C.B.A (Except NV-D80B) from Interface C.B.A Then, connect the Demodulator pack pin and Decoder Pack pin (EXCEPT NV-D80B) to solder the same portions of the Interface C.B.A. by lead jumper.

Note: AFC ON-OFF
When you make AFC ON or OFF condition, set the VTR as follows.
Preparation
* Set the Input Signal Selector to "Tuner".

(1) Press the PRESET/NORMAL Button.
    The indication on the Multi-Function Display changes from the clock indication to the position indication.
(2) Press the Channel Up or Down Button to select a programme position (channel) which you want to tune to a TV station.


Display of the programme positions 1-32
P o: 1
b: 1
Indication of the selected TV band
Selection of the Programme position

(3) Press the SEARCH /FINE Button until the picture of the desired station on your TV is satisfactory.


During the station search (The position indication flashes on and off.)
P o: 1
b: 1
Tuned condition/ When a station is tuned
P o: 1
b: 1

(4) Press the PRESET/NORMAL Button again. The indication on the Multi−Function Display changes to the clock indication.
* Now AFC is "ON" condition.
(5) Press the SEARCH/FINE button in a moment.
* Now AFC is "OFF" condition.

2-4-32. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703, X717, TUNER CONVERTER COIL		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	Refer to VIF Specification chart. (Fig. E29)	

1. Set the SEARCH/FINE button so that the modulated RF signal on the channel (E10:EG/EV,E60:B) is able to receive. And set the DC power supply for 15V and suplly it to BT Terminal of the Tuner after cutting off the BT voltage from CH Select Pack C.B.A.
2. Set the AFC OFF condition.
3. Connect a jumper wire between AGC Terminal of the Tuner and GND.
4. Connect a capasitor (50V/1 uF) between TP703 and GND.
5. Connect the VIF sweep to the Tuner Test Point and connect the monitor scope to TP707 as shown in FIG.E26.

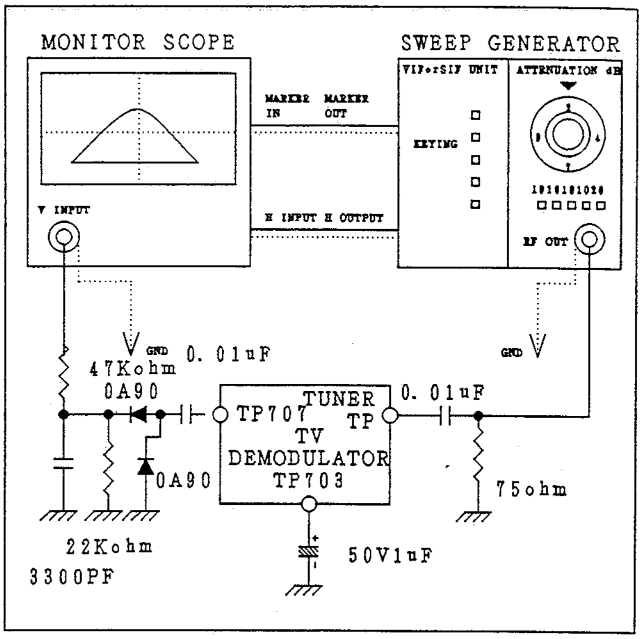

MONITOR SCOPE
SWEEP GENERATOR
VIF•SIF UNIT
ATTENUATION dB
MARKER IN
MARKER OUT
KEYING
V INPUT
H INPUT H OUTPUT
RF OUT
GND
0. 01uF
47Kohm
0A90
TUNER
TP707
TP
TV DEMODULATOR
TP703
0A90
22Kohm
3300PF
50V1uF
0. 01uF
GND
75ohm

FIG.E26

6. Adjust the output of the VIF sweep generator so that the sweep wave becomes 0.3Vp−p on the monitor scope.
7. Release the attenuator of the VIF sweep generator for 20dB.
8. Connect the JIG to both points TP709 and TV Demodulator C.B.A−(6).

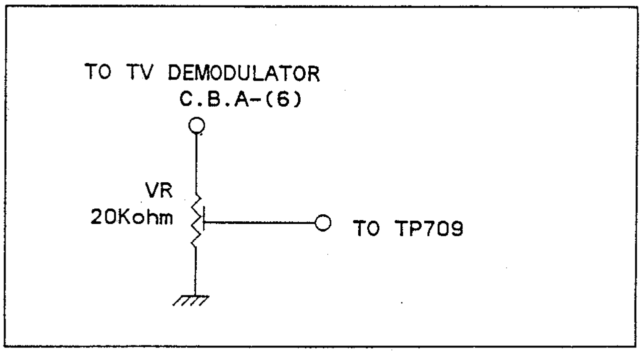

TO TV DEMODULATOR C.B.A−(6)
VR 20Kohm
TO TP709

FIG.E27

9. Adjust the VR of the Adjustment Jig. so that the sweep wave becomes 0.3Vp−p on the Monitor scope.
10. Adjust T703 so that the VCO beat is placed to center of waveform as shown below.

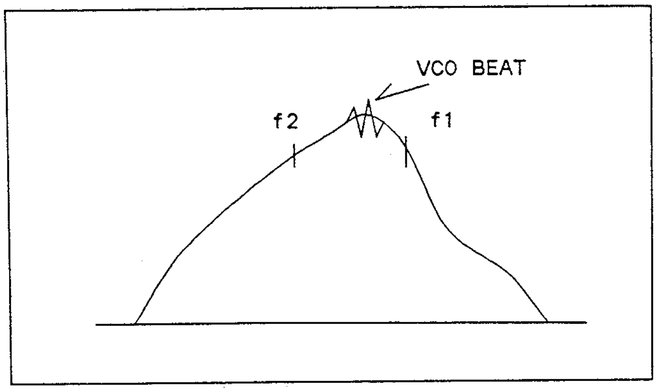


FIG.E28

11. Readjust the VR of the Adjustment Jig. so that the sweep wave becomes 0.3Vp-p on the monitor scope.
Adjust the T703 so that the waveform becomes as follows.
12. Preadjust the X717 & Tuner Converter Coil so that the sweep output waveform becomes maximum and then adjust the X717 & Tuner Converter Coil so that the waveform becomes as follows.

MODEL NO.		NV-D80EV	NV-D80EG	NV-D80B
MARKER FREQUENCY	fs'	40.4MHz	40.4MHz	41.5MHz
	fp	38.9MHz	38.9MHz	39.5MHz
	f1	38.15MHz	38.15MHz	38.6MHz
	f2	35.22MHz	35.22MHz	35.5MHz
	fc	34.47MHz	34.47MHz	35.07MHz
	f3	33.97MHz	33.97MHz	34.57MHz
	fs	33.4MHz	33.4MHz	33.5MHz
	fp'	31.9MHz	31.9MHz	31.5MHz
SPECIFICATIONS	fp	30±5%	30±5%	30±5%
	fc	30±15%	35±15%	35~55%

FIG.E29

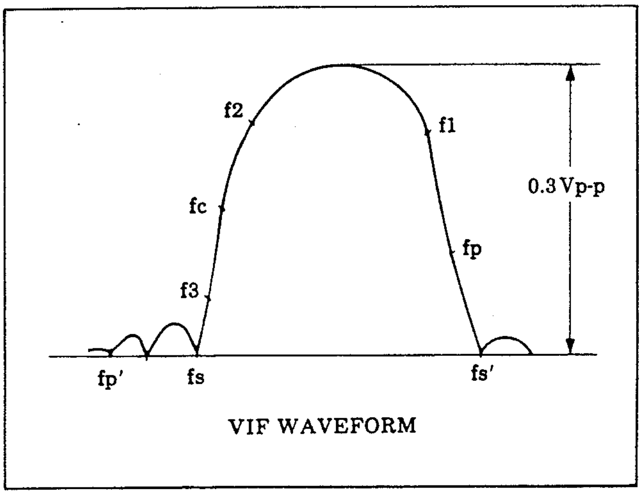


FIG.E30

2-4-33. VCO ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP703 (EG/EO/EV) TP704 (B)	T703		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER/ TUNING AMPLIFIER	38.9MHz±10kHz (EG/EV) 39.5MHz±10kHz (B)	

1. Connect a Resistor (1Kohm) between TP709 and GND.
2. Connect the frequency counter to TP704 through the tuning amplifier.
3. Adjust T703 so that the reading of frequency counter is 38.9MHz +- 10KHz (EG/EV), 139.5MHz +- 10KHz (B).

2-4-34. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
AFC TERMINAL OF THE TUNER	T704		CW SIGNAL (1Vrms)
TAPE	**M. EQ.**	**SPEC.**	
	CW OSCILLATOR/ D.V.M.	A=38.9MHz (EV/EG) A=39.5MHz (B)	

1. Set the SEARCH/FINE button so that the modulated RF signal on the channel (E10:EG/EV,E60:B) is able to receive. And set the DC power supply for 15 +- 1V and supply it to BT Terminal of the Tuner after cutting off the BT voltage from the CH Select Pack C.B.A.
2. Set the CW oscillator output for "A" MHz and 1Vrms. Connect the CW oscillator output to the Tuner Test Point.
3. Connect the D.V.M. to the AFC terminal of the tuner.
4. Read the value "B" of the D.V.M., when the AFC is OFF condition.
5. Set the AFC ON condition and adjust T704 for "B" +- 0.3V.
6. Change the frequency of the CW oscillator to "A" (MHz) +- 100KHz, and confirm the difference (EV/B),+-1.5V(EG) respective.

2-4-35. SIF SWEEP ADJUSTMENT (NV-D80B ONLY)

TP	ADJ.	MODE	INPUT
AUDIO OUT (TV DEMODU-LATOR C.B.A.-(15))	T711 VR751		SIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	A=6.0MHz	

1. Set the SEARCH/FINE button so that the modulated RF signal on the channel E60 is able to receive.
2. Set the DC power supply for 15 +– 1V and supply it to BT Terminal of the Tuner after cutting off the BT voltage from the CH Select Pack C.B.A.
3. Connect the SIF sweep generator to TP706 and connect the monitor scope to TV Demodulator C.B.A–(15) as shown in Fig. E31.

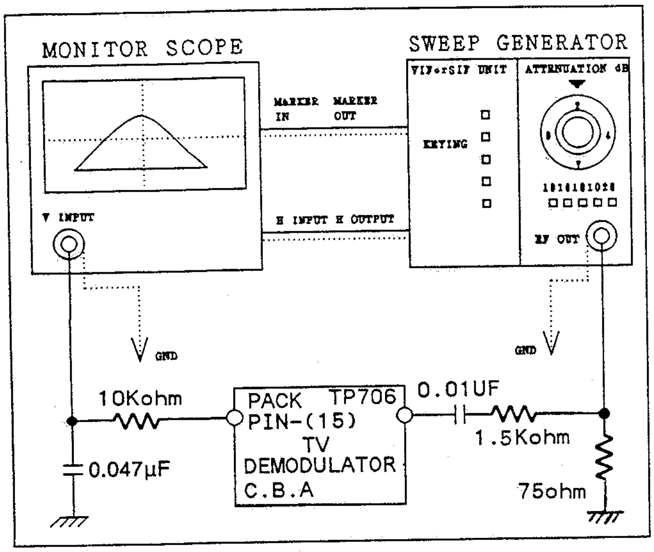

MONITOR SCOPE
SWEEP GENERATOR
VIF•SIF UNIT
ATTENUATION dB
MARKER IN
MARKER OUT
KEYING
H INPUT
H OUTPUT
V INPUT
RF OUT
GND
GND
10Kohm
0.047μF
PACK TP706
PIN-(15)
TV
DEMODULATOR
C.B.A
0.01UF
1.5Kohm
75ohm

FIG.E31

4. Connect the Jig. to both points TP709 and TV Demodulator C.B.A–(6).
Adjust the VR of the Jig. so that the DC level becomes less than 3V.

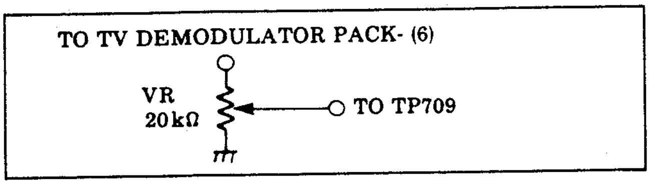

TO TV DEMODULATOR PACK- (6)
VR
20kΩ
TO TP709

FIG.E32

5. Set the output of SIF sweep generator for 250mVrms at no load.
6. Adjust VR751 so that the SIF waveform becomes center.
7. Adjust T711 so that the attenuation of (A) trap becomes minimum.
And adjust for maximum peak–to–peak amplitude of response "S" curve as shown in Fig. E33.

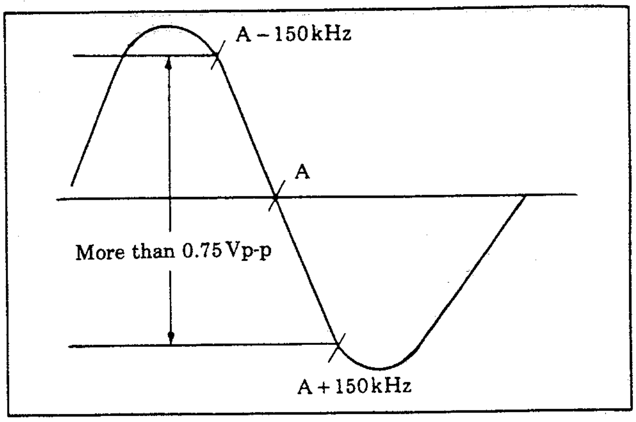

A – 150kHz
A
More than 0.75Vp-p
A + 150kHz

FIG.E33

8. Comfirm that the level between (A) +– 150KHz marker position is more than 0.75Vp–p.

2-4-36. AUDIO LEVEL ADJUSTMENT (NV-D80B ONLY)

TP	ADJ.	MODE	INPUT
AUDIO OUT (TV DEMODU-LATOR C.B.A.-(15))	VR751		VIDEO COLOUR BAR V. MODU: 87.5%, 75dBμ AUDIO 400Hz A. MODU:30% (60%, 100%) (15kHz DEV)
TAPE	**M. EQ.**	**SPEC.**	
	RC OSC/ OSCILLO-SCOPE or D.V.M/ M.V.M/ PATTERN GENERATOR		

1. Supply a video signal (Colour Bar pattern) from the pattern generator and 400Hz sine wave from RC oscillator to the input of the M.V.M.
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH (+) or (–) button so that the modulated RF signal on the channel E60 is able to receive.
4. Set the AFC ON condition.
5. 1Connect the oscilloscope OR D.V.M to TV Demodulator C.B.A–(15).
6. Adjust VR751 so that the audio level becomes as shown below.

DEV M. EQ.	30%	60%	100%
OSCILLO-SCOPE	100±5mVp-p	200±5mVp-p	333±17mVp-p
D.V.M	32±2mVrms	70±4mVrms	117±6mVrms

DECODER SECTION (NV-D80 EG, EV Only)

2-4-37. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. Degital Volt Meter (D.V.M)
2. Oscilloscope
3. Multi Voice Modulator (M.V.M)
4. Frequency counter
5. Noise meter
6. Distortion Meter

Note:

1).To make this adjustment, set the Demodulator Unit as shown in FIG.E25.

2).If output of M.V.M is not indicated,output must be follows.

CH: E10 (Philips Pattern)
Video Modulation: 87.5%
Output: 75dBu
Audio: 1KHz ,100% modulation
(30KHz DEV.)

2-4-38. FM DETECTION TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A. -(11): (L) -(12): (R)	T753 (L) T752 (R)		M.V.M (CHE10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ OSCILLO-SCOPE/ PATTERN GENERATOR /DISTORTION METER	DISTORTION RATE (L) Less than 1.8% (R) Less than 1.0% OUTPUT LEVEL: MAXIMUM	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the M.V.M.
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH /FINE button so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Connect the oscilloscope and destortion meter to Decoder C.B.A–(11).
6. Adjust T753 so that the output level on the oscilloscope becomes maximum and destortion meter becomes MINIMUM.
7. Connect the oscilloscope and destortion meter to Decoder C.B.A–(12).
8. Adjust T752 so that the output level on the oscilloscope becomes maximum becomes MINIMUM.

2-4-39. SOUND MULTIPLEX DETECTION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7303 TP7304	VR7326 VR7328		M.V.M (CH10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M/ OSCILLO-SCOPE/ PATTERN GENERATOR	WAVEFORM IS MAXIMIZED MORE THAN 5 Vp-p	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the M.V.M.
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Connect the oscilloscope to TP7303.
6. Set the mode switch of the M.V.M to STEREO mode.
7. Adjust VR7326 mutually so that the waveform (117.5Hz) is maximized and then confirm that the STEREO LED on the Deck just lights up. Change the output level of the M.V.M to 45dBu. And then adjust T7301 mutually so that the waveform (117.5Hz) is maximized and then confirm that the STEREO LED on the Deck just lights up.
8. Re–set the mode switch of the M.V.M to Multiplex mode.
9. Re–connect the oscilloscope to TP7304.
10. Adjust VR7328 so that the waveform (274.1Hz) is maximized and then confirm that the Multiplex LED on the Deck just lights up.

Note:
Confirm that the level of the waveforms (117.5Hz and 274.1Hz) are more than 5Vp–p.

2-4-40. STEREO SEPARATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A.-(11)	VR7301		M.V.M (CH10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M/ PATTERN GENERATOR/ NOISE METER	LEVEL IS REMAINDER MORE THAN 30dB	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channnel E10 is able to receive.
4. Set the AFC ON condition.
5. Connect the noise meter to Decoder C.B.A–(11).
6. Set the mode switch of the M.V.M to LEFT mode.
7. Read the value "A" of the noise meter, when the mode switch of the M.V.M to LEFT mode.
8. Re–set the mode switch of the M.V.M to RIGHT mode.
9. Adjust VR7301 so that the reading of the noise meter becomes minimum and read the value "B" of the noise meter, when the mode switch of the M.V.M to RIGHT mode.
10. Find the remainder of "A" and "B". Confirm the find one is more than 30dB.

2-4-41. AUDIO OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A. -(11): (L) -(12): (R)	VR7344 (L) VR7340 (R)		M.V.M (CHE10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M/ NOISE METER/ PATTERN GENERATOR	100±5mVrms	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Set the mode switch of the M.V.M to LEFT mode.
6. Connect the noise meter to Decoder C.B.A.–(11).
7. Adjust VR7344 for 100 +– 5mVrms.
8. Re–set the mode switch of the M.V.M to RIGHT mode.
9. Re–connect the noise meter to Decoder C.B.A–(12).
10. Adjust VR7340 for 100 +– 5mVrms.

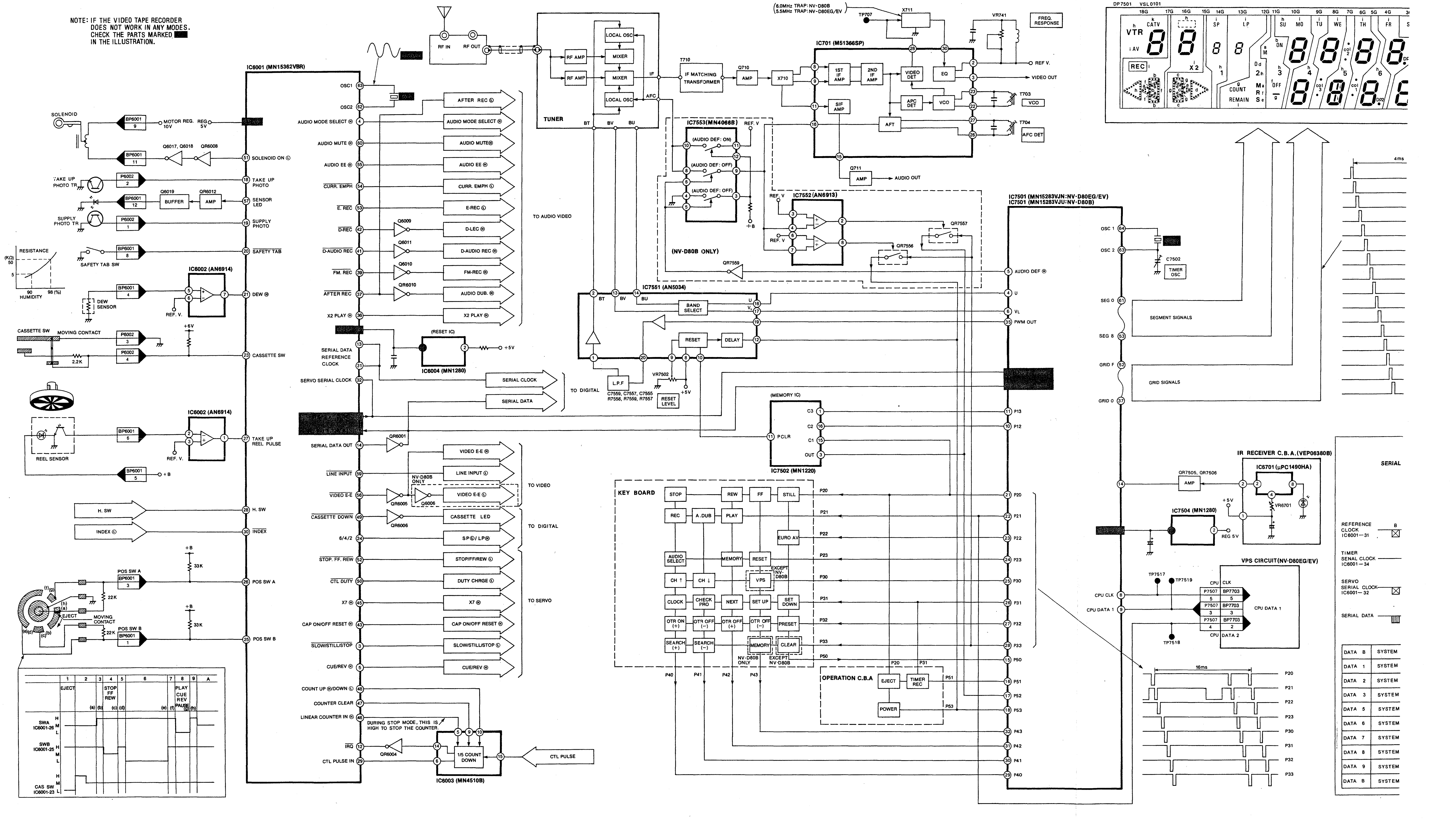
2-4-42. MAIN AUDIO OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A.-(9)	VR751		M.V.M (CHE10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M/ NOISE METER/ PATTERN GENERATOR	85±5mVrms	

1. Supply a video signal (PHILIPS pattern) from 1the pattern generator to the input of the M.V.M.
2. Connect the output of the M.V.V to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is received.
4. Set the AFC ON condition.
5. Set the mode switch of the M.V.M to NORMAL mode.
6. Connect the noise meter to the Decoder C.B.A–(9).
7. Adjust VR751 for 85 +– 5mVrms.

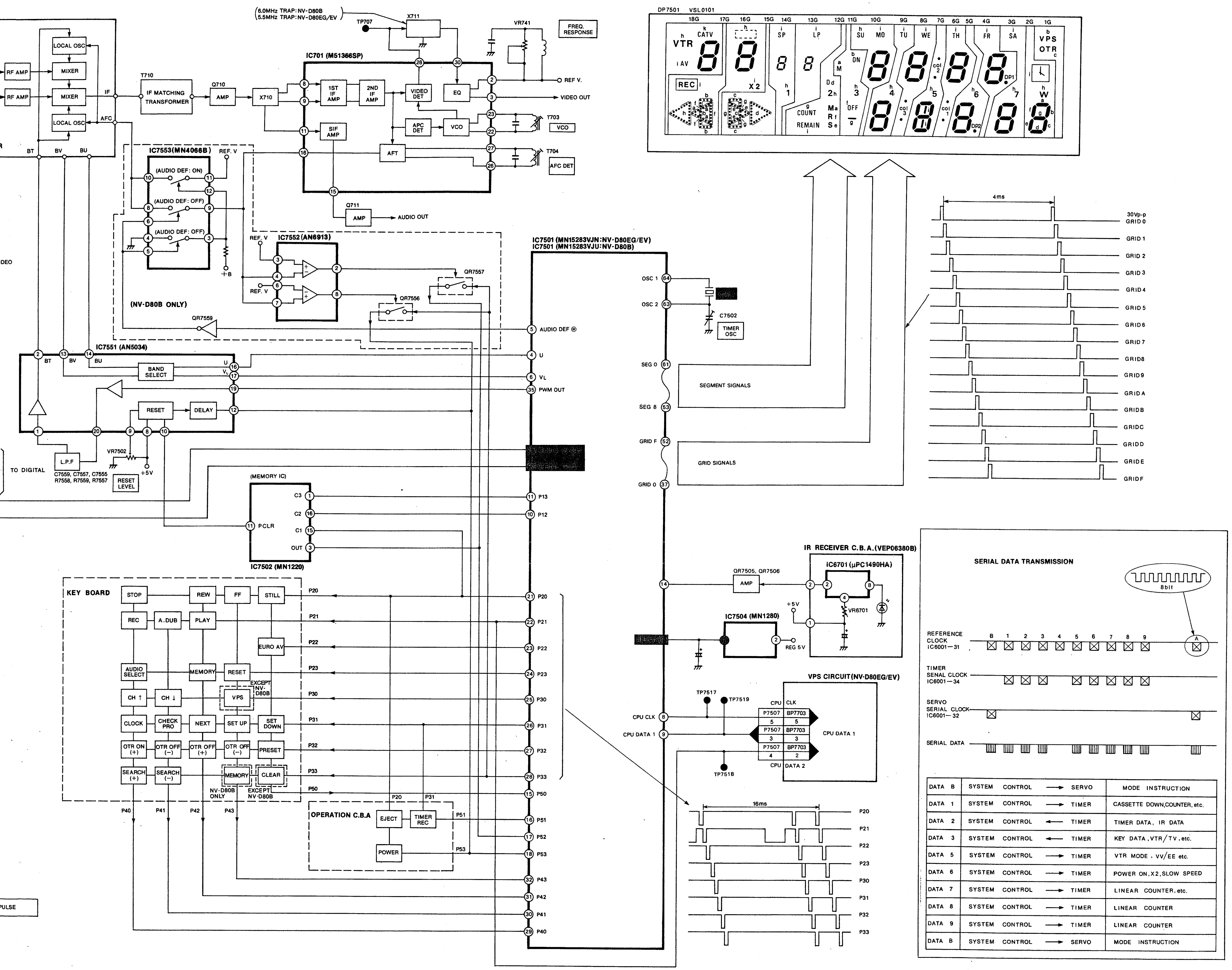
Memo

SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. SYSTEM CONTROL BLOCK DIAGRAM



NOTE: IF THE VIDEO TAPE RECORDER DOES NOT WORK IN ANY MODES. CHECK THE PARTS MARKED ■ IN THE ILLUSTRATION.

IC6001 (MN15362VBR)
OSC1
OSC2
AUDIO MODE SELECT ®
AUDIO MUTE ®
AUDIO EE ®
CURR. EMPH
E. REC
D-REC
D-AUDIO REC
FM. REC
AFTER REC
X2 PLAY ®
SERIAL DATA REFERENCE CLOCK
SERVO SERIAL CLOCK
SERIAL DATA OUT
LINE INPUT
VIDEO E-E
CASSETTE DOWN
6/4/2
STOP. FF. REW
CTL DUTY
X7 ®
CAP ON/OFF RESET ®
SLOW/STILL/STOP
CUE/REV ®
COUNT UP ®/DOWN Ⓛ
COUNTER CLEAR
LINEAR COUNTER IN ®
IRQ
CTL PULSE IN
SOLENOID
MOTOR REG. 10V
REG 5V
BP6001
BP6002
Q6017, Q6018
QR6008
SOLENOID ON Ⓛ
TAKE UP PHOTO TR
TAKE UP PHOTO
Q6019
QR6012
BUFFER
AMP
SENSOR LED
SUPPLY PHOTO TR
SUPPLY PHOTO
RESISTANCE
(KΩ)
HUMIDITY
SAFETY TAB SW
SAFETY TAB
IC6002 (AN6914)
DEW SENSOR
REF. V.
DEW ®
CASSETTE SW
MOVING CONTACT
2.2K
+6V
CASSETTE SW
REEL SENSOR
TAKE UP REEL PULSE
H. SW
INDEX Ⓛ
POS SW A
POS SW B
22K
33K
EJECT
MOVING CONTACT
AFTER REC Ⓛ
AUDIO MODE SELECT ®
AUDIO MUTE®
AUDIO EE ®
CURR. EMPH Ⓛ
E-REC Ⓛ
D-LEC ®
D-AUDIO REC ®
FM-REC ®
AUDIO DUB. ®
X2 PLAY ®
TO AUDIO VIDEO
Q6009
Q6011
Q6010
QR6010
(RESET IC)
IC6004 (MN1280)
+5V
SERIAL CLOCK
SERIAL DATA
TO DIGITAL
QR6001
VIDEO E-E ®
LINE INPUT Ⓛ
NV-D80B ONLY
VIDEO E-E Ⓛ
QR6005
Q6006
QR6006
CASSETTE LED
SP®/LP®
TO VIDEO
TO DIGITAL
STOP/FF/REW Ⓛ
DUTY CHRGE Ⓛ
X7 ®
CAP ON/OFF RESET ®
SLOW/STILL/STOP Ⓛ
CUE/REV ®
TO SERVO
DURING STOP MODE, THIS IS HIGH TO STOP THE COUNTER.
QR6004
1/5 COUNT DOWN
IC6003 (MN4510B)
CTL PULSE
RF IN
RF OUT
TUNER
RF AMP
LOCAL OSC
MIXER
IF
AFC
BT
BV
BU
T710
IF MATCHING TRANSFORMER
Q710
X710
(6.0MHz TRAP: NV-D80B / 5.5MHz TRAP: NV-D80EG/EV)
TP707
X711
VR741
FREQ. RESPONSE
IC701 (M51366SP)
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
APC DET
VCO
SIF AMP
AFT
REF V.
VIDEO OUT
T703
T704
AFC DET
Q711
AUDIO OUT
IC7553 (MN4066B)
(AUDIO DEF: ON)
(AUDIO DEF: OFF)
IC7552 (AN6913)
QR7557
QR7556
QR7559
(NV-D80B ONLY)
IC7551 (AN5034)
BAND SELECT
RESET
DELAY
L.P.F
VR7502
RESET LEVEL
C7559, C7557, C7555, R7558, R7559, R7557
(MEMORY IC)
PCLR
IC7502 (MN1220)
KEY BOARD
STOP
REW
FF
STILL
REC
A.DUB
PLAY
EURO AV
AUDIO SELECT
MEMORY
RESET
CH ↑
CH ↓
VPS
EXCEPT NV-D80B
CLOCK
CHECK PRO
NEXT
SET UP
SET DOWN
OTR ON (+)
OTR OFF (−)
OTR OFF (+)
OTR OFF (−)
PRESET
SEARCH (+)
SEARCH (−)
MEMORY
CLEAR
NV-D80B ONLY
EXCEPT NV-D80B
OPERATION C.B.A
EJECT
TIMER REC
POWER
P20 P21 P22 P23 P30 P31 P32 P33 P50 P51 P52 P53 P40 P41 P42 P43
IC7501 (MN15283VJN:NV-D80EG/EV)
IC7501 (MN15283VJU:NV-D80B)
OSC 1
OSC 2
C7502
TIMER OSC
AUDIO DEF ®
U
VL
PWM OUT
SEG 0
SEG 8
SEGMENT SIGNALS
GRID F
GRID 0
GRID SIGNALS
P13
P12
DP7501 VSL0101
VTR
CATV
REC
SP
LP
COUNT
REMAIN
X2
SU MO TU WE TH FR
IR RECEIVER C.B.A. (VEP06380B)
IC6701 (μPC1490HA)
QR7505, QR7506
IC7504 (MN1280)
REG 5V
VR6701
VPS CIRCUIT (NV-D80EG/EV)
TP7517
TP7519
TP7518
CPU CLK
CPU DATA 1
CPU DATA 2
P7507
BP7703
4ms
16ms
REFERENCE CLOCK IC6001—31
TIMER SERIAL CLOCK IC6001—34
SERVO SERIAL CLOCK IC6001—32
SERIAL DATA
SERIAL
DATA B SYSTEM
DATA 1 SYSTEM
DATA 2 SYSTEM
DATA 3 SYSTEM
DATA 5 SYSTEM
DATA 6 SYSTEM
DATA 7 SYSTEM
DATA 8 SYSTEM
DATA 9 SYSTEM
DATA B SYSTEM
EJECT
STOP FF REW
PLAY CUE REV PAUSE
SWA IC6001-26
SWB IC6001-25
CAS SW IC6001-23
H M L

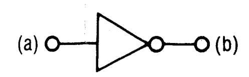


RF AMP
MIXER
LOCAL OSC
IF
AFC
BT
BV
BU
(6.0MHz TRAP: NV-D80B
5.5MHz TRAP: NV-D80EG/EV)
TP707
X711
VR741
FREQ. RESPONSE
IC701 (M51366SP)
T710
IF MATCHING TRANSFORMER
Q710
AMP
X710
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
SIF AMP
APC DET
VCO
AFT
REF V.
VIDEO OUT
T703
T704
AFC DET
Q711
AUDIO OUT
IC7553(MN4066B)
(AUDIO DEF: ON)
(AUDIO DEF: OFF)
REF. V
IC7552 (AN6913)
QR7557
QR7556
(NV-D80B ONLY)
QR7559
IC7551 (AN5034)
BAND SELECT
RESET
DELAY
VR7502
L.P.F
RESET LEVEL
TO DIGITAL
C7559, C7557, C7555 R7558, R7559, R7557
+5V
(MEMORY IC)
PCLR
C3
C2
C1
OUT
IC7502 (MN1220)
IC7501 (MN15283VJN:NV-D80EG/EV)
IC7501 (MN15283VJU:NV-D80B)
OSC 1
OSC 2
C7502
TIMER OSC
AUDIO DEF
U
VL
PWM OUT
SEG 0
SEG 8
GRID F
GRID 0
P13
P12
SEGMENT SIGNALS
GRID SIGNALS
DP7501 VSL0101
VTR
CATV
REC
X2
SP
LP
SU MO TU WE TH FR SA
VPS
OTR
ON
OFF
COUNT
REMAIN
4ms
30Vp-p
GRID 0
GRID 1
GRID 2
GRID 3
GRID 4
GRID 5
GRID 6
GRID 7
GRID 8
GRID 9
GRID A
GRID B
GRID C
GRID D
GRID E
GRID F
KEY BOARD
STOP
REW
FF
STILL
REC
A.DUB
PLAY
EURO AV
AUDIO SELECT
MEMORY
RESET
CH ↑
CH ↓
VPS
EXCEPT NV-D80B
CLOCK
CHECK PRO
NEXT
SET UP
SET DOWN
OTR ON (+)
OTR OFF (−)
OTR OFF (+)
OTR OFF (−)
PRESET
SEARCH (+)
SEARCH (−)
MEMORY
CLEAR
NV-D80B ONLY
EXCEPT NV-D80B
P20
P21
P22
P23
P30
P31
P32
P33
P50
P40
P41
P42
P43
OPERATION C.B.A
EJECT
TIMER REC
POWER
P51
P52
P53
16ms
IR RECEIVER C.B.A.(VEP06380B)
IC6701 (μPC1490HA)
QR7505, QR7506
AMP
VR6701
IC7504 (MN1280)
REG 5V
VPS CIRCUIT(NV-D80EG/EV)
TP7517
TP7519
TP7518
CPU CLK
CPU DATA 1
CPU DATA 2
P7507
BP7703
SERIAL DATA TRANSMISSION
8bit
REFERENCE CLOCK IC6001—31
TIMER SENAL CLOCK IC6001—34
SERVO SERIAL CLOCK IC6001—32
SERIAL DATA

DATA B	SYSTEM CONTROL → SERVO	MODE INSTRUCTION
DATA 1	SYSTEM CONTROL → TIMER	CASSETTE DOWN,COUNTER, etc.
DATA 2	SYSTEM CONTROL ← TIMER	TIMER DATA, IR DATA
DATA 3	SYSTEM CONTROL ← TIMER	KEY DATA, VTR/TV, etc.
DATA 5	SYSTEM CONTROL → TIMER	VTR MODE , VV/EE etc.
DATA 6	SYSTEM CONTROL → TIMER	POWER ON, X2, SLOW SPEED
DATA 7	SYSTEM CONTROL → TIMER	LINEAR COUNTER, etc.
DATA 8	SYSTEM CONTROL → TIMER	LINEAR COUNTER
DATA 9	SYSTEM CONTROL → TIMER	LINEAR COUNTER
DATA B	SYSTEM CONTROL → SERVO	MODE INSTRUCTION

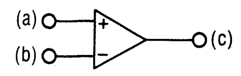
SYMBOL | **TRUTH VALUE TABLE**

INVERTER



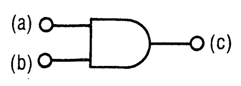
IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR



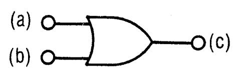
IN	(a) (b)	(a) > (b)	(a) < (b)
OUT	(c)	H	L

AND CIRCUIT



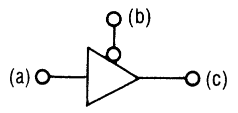
IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT



IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

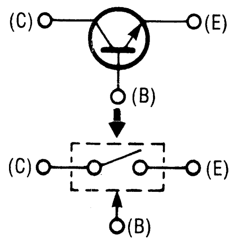
THREE STATES BUFFER



IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

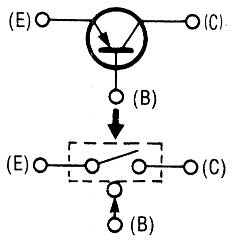
※ High Impedance

TR. SW (NPN TYPE)



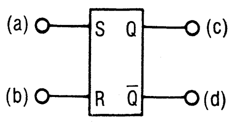
BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)



BASE	H	L
TR. SW	OFF	ON

R-S TYPE FLIP-FLOP

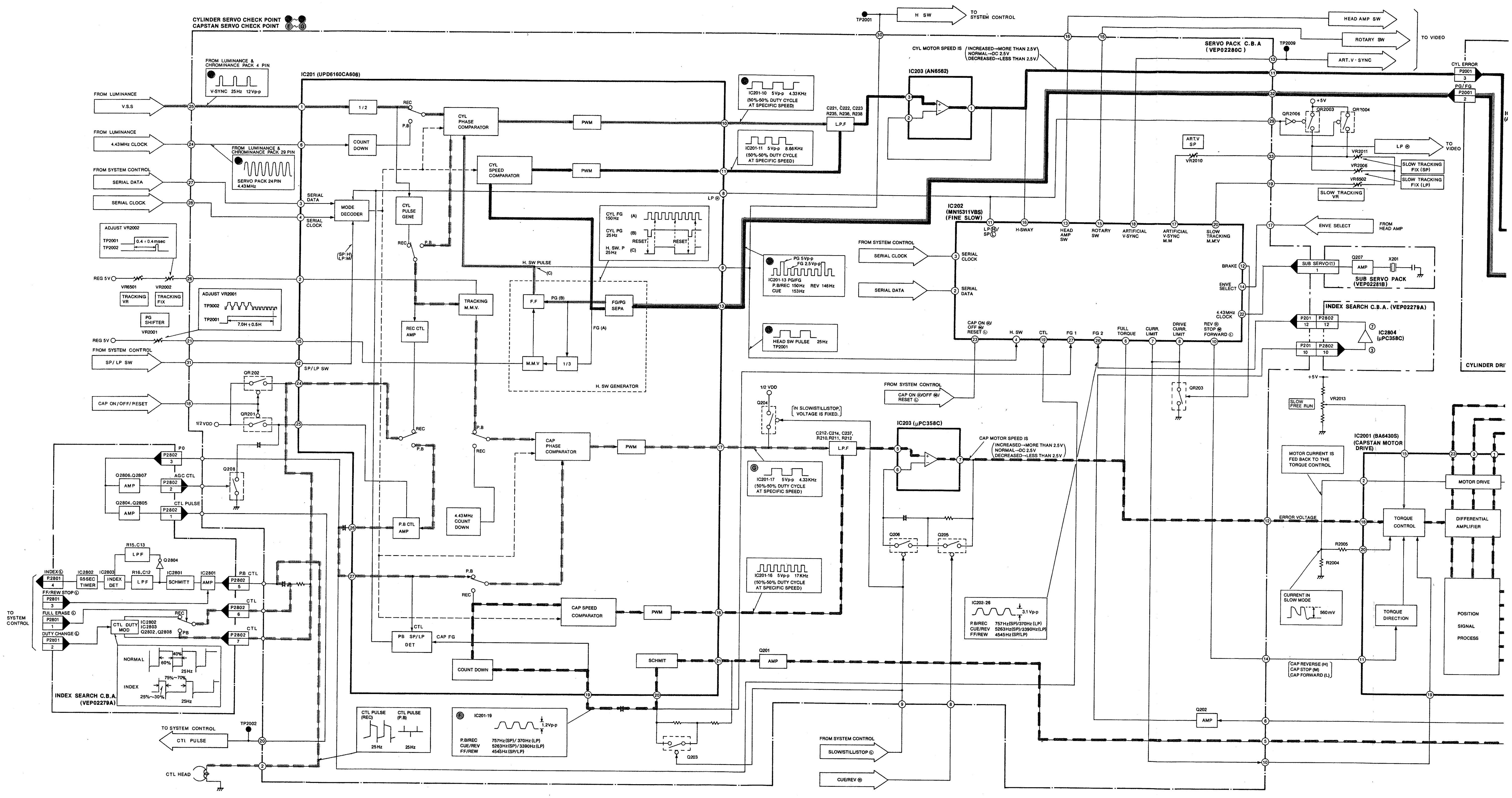


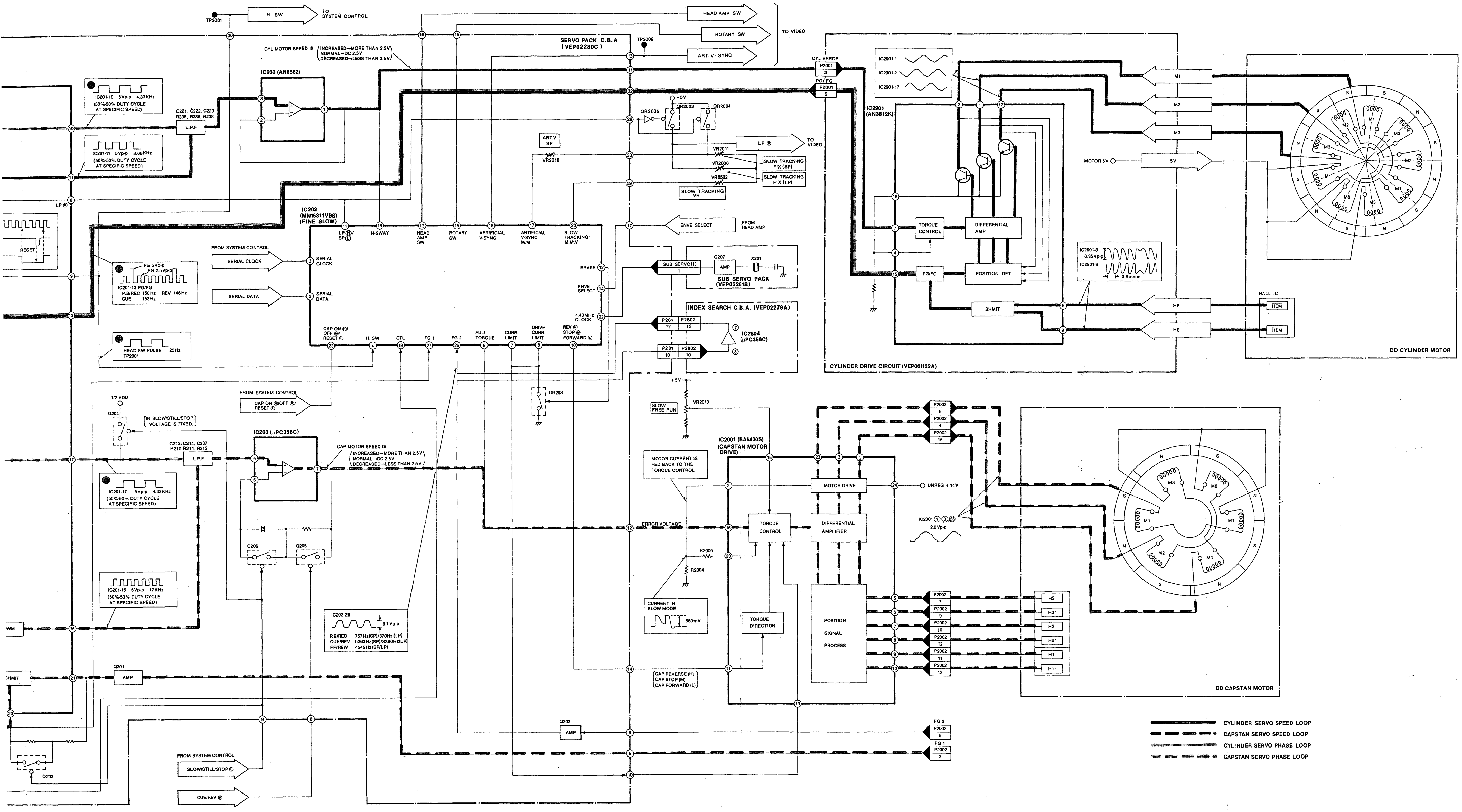
IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reverced.

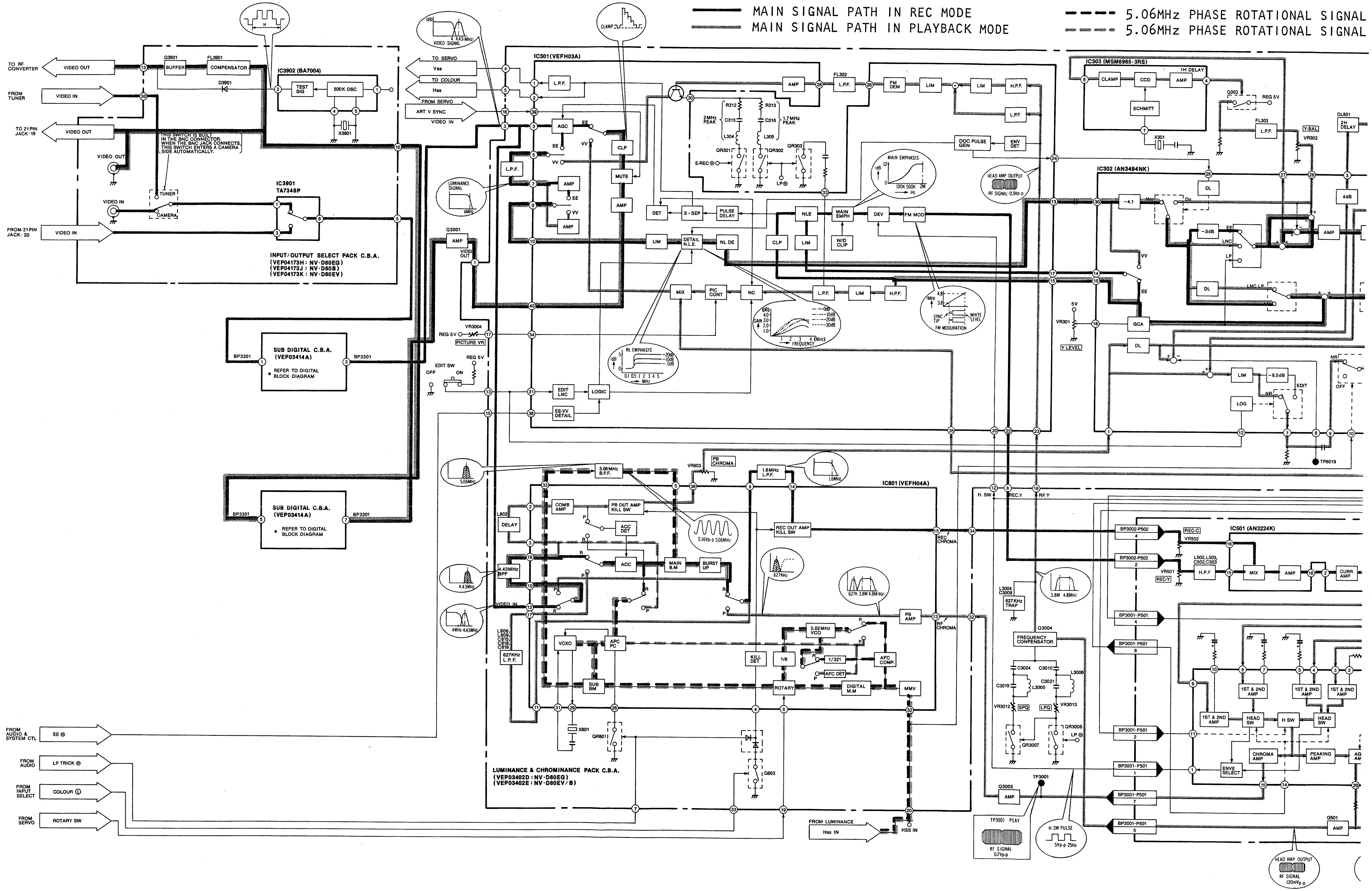
Next Page:
SERVO Section

3-2. SERVO BLOCK DIAGRAM


CYLINDER SERVO CHECK POINT Ⓐ~Ⓓ
CAPSTAN SERVO CHECK POINT Ⓔ~Ⓖ
FROM LUMINANCE & CHROMINANCE PACK 4 PIN
V-SYNC 25Hz 12Vp-p
IC201 (UPD6160CA606)
FROM LUMINANCE
V.S.S
4.43MHz CLOCK
FROM LUMINANCE & CHROMINANCE PACK 29 PIN
SERVO PACK 24PIN 4.43MHz
FROM SYSTEM CONTROL
SERIAL DATA
SERIAL CLOCK
ADJUST VR2002
TP2001
TP2002
0.4 ± 0.4msec
REG 5V
VR6501
VR2002
TRACKING VR
TRACKING FIX
PG SHIFTER
VR2001
ADJUST VR2001
TP3002
7.0H ± 0.5H
SP/LP SW
CAP ON/OFF/RESET
1/2
COUNT DOWN
REC
P.B
CYL PHASE COMPARATOR
CYL SPEED COMPARATOR
PWM
MODE DECODER
CYL PULSE GENE
SERIAL DATA
SERIAL CLOCK
CYL FG 150Hz
CYL PG 25Hz
H. SW. P 25Hz
RESET
H. SW PULSE
F.F
PG (B)
FG/PG SEPA
FG (A)
TRACKING M.M.V.
REC CTL AMP
M.M.V
1/3
H. SW GENERATOR
CAP PHASE COMPARATOR
4.43MHz COUNT DOWN
P.B CTL AMP
CAP SPEED COMPARATOR
PB SP/LP DET
CAP FG
CTL
COUNT DOWN
SCHMIT
AMP
Q201
Q202
Q203
Q204
Q205
Q206
IC201-10 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC201-11 5Vp-p 8.66KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC201-13 PG/FG PG 5Vp-p FG 2.5Vp-p P.B/REC 150Hz REV 146Hz CUE 153Hz
HEAD SW PULSE 25Hz TP2001
IC201-17 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC201-16 5Vp-p 17KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC201-19 1.2Vp-p P.B/REC 757Hz(SP)/370Hz(LP) CUE/REV 5263Hz(SP)/3390Hz(LP) FF/REW 4545Hz(SP/LP)
CTL PULSE (REC)
CTL PULSE (P.B)
25Hz
C221, C222, C223 R235, R236, R238
L.P.F
C212, C214, C237, R210, R211, R212
TP2001
H SW
TO SYSTEM CONTROL
CYL MOTOR SPEED IS (INCREASED→MORE THAN 2.5V NORMAL→DC 2.5V DECREASED→LESS THAN 2.5V)
IC203 (AN6562)
IC203 (μPC358C)
CAP MOTOR SPEED IS (INCREASED→MORE THAN 2.5V NORMAL→DC 2.5V DECREASED→LESS THAN 2.5V)
IN SLOW/STILL/STOP, VOLTAGE IS FIXED.
1/2 VDD
IC202 (MN15311VBS) (FINE SLOW)
LP Ⓗ/SP Ⓛ
H-SWAY
HEAD AMP SW
ROTARY SW
ARTIFICIAL V-SYNC
ARTIFICIAL V-SYNC M.M
SLOW TRACKING M.M'V
BRAKE
ENVE SELECT
4.43MHz CLOCK
CAP ON Ⓗ/OFF Ⓜ/RESET Ⓛ
H. SW
FG 1
FG 2
FULL TORQUE
CURR. LIMIT
DRIVE CURR. LIMIT
REV Ⓗ STOP Ⓜ FORWARD Ⓛ
FROM SYSTEM CONTROL
SERIAL CLOCK
SERIAL DATA
IC202-26 3.1Vp-p P.B/REC 757Hz(SP)/370Hz(LP) CUE/REV 5263Hz(SP)/3390Hz(LP) FF/REW 4545Hz(SP/LP)
SLOW/STILL/STOP Ⓗ
CUE/REV Ⓗ
SERVO PACK C.B.A (VEP02280C)
TP2009
HEAD AMP SW
ROTARY SW
ART.V-SYNC
TO VIDEO
CYL ERROR
P2001
PG/FG
QR2006
QR2003
QR2004
+5V
LP Ⓗ
VR2011
VR2006
VR6502
SLOW TRACKING FIX (SP)
SLOW TRACKING FIX (LP)
SLOW TRACKING VR
ART.V SP
VR2010
ENVE SELECT
FROM HEAD AMP
SUB SERVO(1)
Q207
X201
SUB SERVO PACK (VEP02281B)
INDEX SEARCH C.B.A. (VEP02279A)
P201
P2802
IC2804 (μPC358C)
CYLINDER DRI
QR203
SLOW FREE RUN
VR2013
IC2001 (BA6430S) (CAPSTAN MOTOR DRIVE)
MOTOR CURRENT IS FED BACK TO THE TORQUE CONTROL
MOTOR DRIVE
ERROR VOLTAGE
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
R2005
R2004
CURRENT IN SLOW MODE
560mV
TORQUE DIRECTION
POSITION SIGNAL PROCESS
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
P0
Q2806, Q2807
AGC CTL
Q2804, Q2805
CTL PULSE
Q208
QR202
QR201
R15, C13
LPF
Q2804
INDEX Ⓛ
IC2802 0.5SEC TIMER
IC2803 INDEX DET
R16, C12
IC2801 SCHMITT
P.B CTL
FF/REW STOP Ⓛ
FULL ERASE Ⓛ
DUTY CHANGE Ⓛ
CTL DUTY MOD
IC2802 IC2803 Q2802, Q2808
P2801
TO SYSTEM CONTROL
NORMAL
INDEX
40%
60%
75%~70%
25%~30%
INDEX SEARCH C.B.A. (VEP02279A)
TO SYSTEM CONTROL
CTL PULSE
TP2002
CTL HEAD

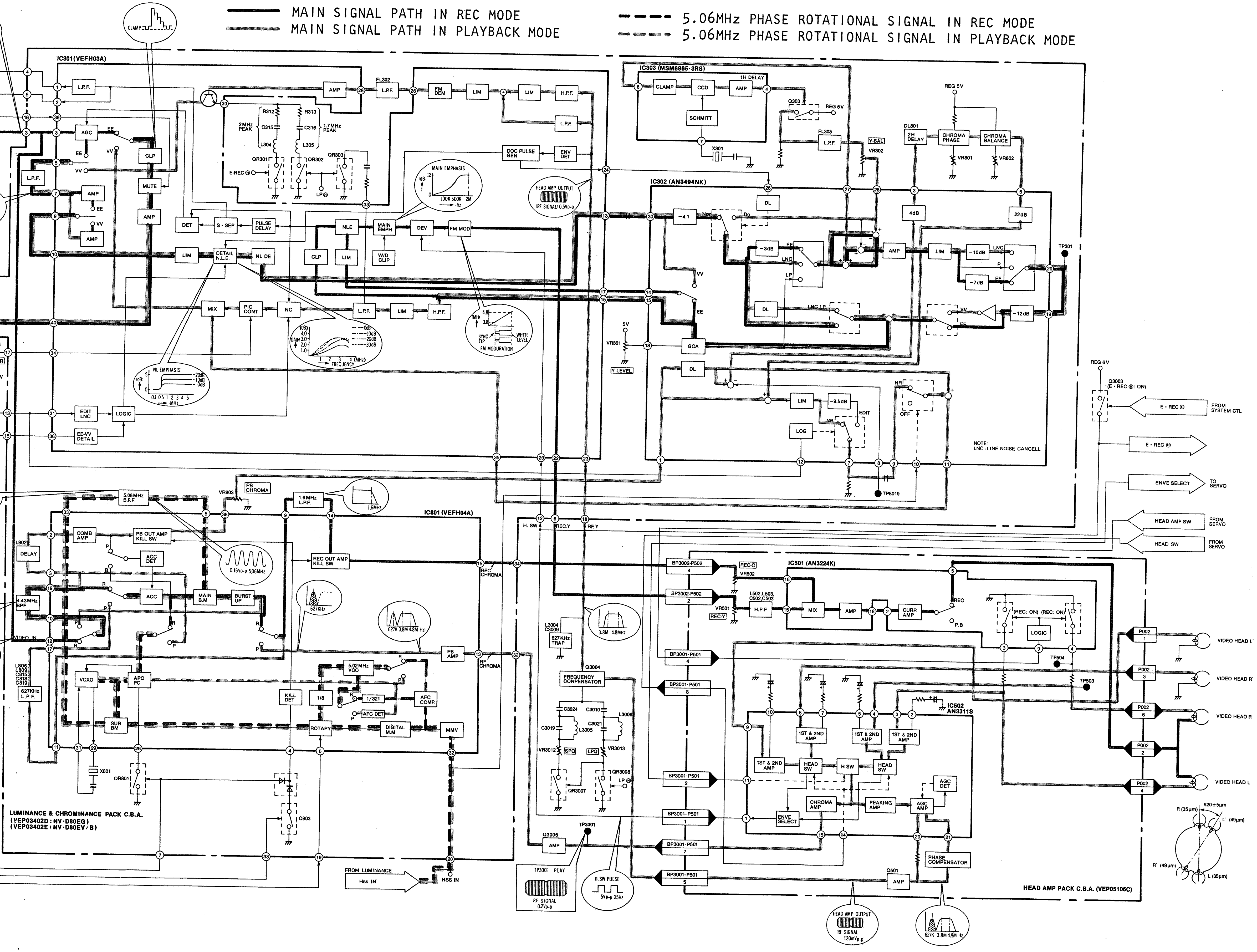

TP2001
H SW
TO SYSTEM CONTROL
HEAD AMP SW
ROTARY SW
ART. V - SYNC
TO VIDEO
SERVO PACK C.B.A (VEP02280C)
TP2009
CYL MOTOR SPEED IS (INCREASED→MORE THAN 2.5V / NORMAL→DC 2.5V / DECREASED→LESS THAN 2.5V)
IC203 (AN6562)
IC201-10 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
C221, C222, C223 R235, R236, R238
L.P.F
IC201-11 5Vp-p 8.66KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
LP Ⓗ
RESET
QR2006
QR2003
QR1004
+5V
LP Ⓗ
TO VIDEO
ART.V SP
VR2010
VR2011
VR2006
VR6502
SLOW TRACKING FIX (SP)
SLOW TRACKING FIX (LP)
SLOW TRACKING VR
IC202 (MN15311VBS) (FINE SLOW)
LP Ⓗ/SP Ⓛ
H-SWAY
HEAD AMP SW
ROTARY SW
ARTIFICIAL V-SYNC
ARTIFICIAL V-SYNC M.M
SLOW TRACKING M.M'V
ENVE SELECT
FROM HEAD AMP
FROM SYSTEM CONTROL
SERIAL CLOCK
SERIAL DATA
PG 5Vp-p
FG 2.5Vp-p
IC201-13 PG/FG
P.B/REC 150Hz REV 146Hz
CUE 153Hz
BRAKE
ENVE SELECT
4.43MHz CLOCK
SUB SERVO(1)
Q207 AMP
X201
SUB SERVO PACK (VEP02281B)
INDEX SEARCH C.B.A. (VEP02279A)
P201 P2802
IC2804 (μPC358C)
HEAD SW PULSE 25Hz TP2001
CAP ON Ⓗ/OFF Ⓜ/RESET Ⓛ
H. SW
CTL
FG 1
FG 2
FULL TORQUE
CURR. LIMIT
DRIVE CURR. LIMIT
REV Ⓗ STOP Ⓜ FORWARD Ⓛ
QR203
+5V
SLOW FREE RUN
VR2013
1/2 VDD
Q204
IN SLOW/STILL/STOP, VOLTAGE IS FIXED.
FROM SYSTEM CONTROL
CAP ON Ⓗ/OFF Ⓜ/RESET Ⓛ
IC203 (μPC358C)
CAP MOTOR SPEED IS (INCREASED→MORE THAN 2.5V / NORMAL→DC 2.5V / DECREASED→LESS THAN 2.5V)
C212-C214, C237, R210, R211, R212
L.P.F
IC201-17 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
Q206
Q205
IC201-16 5Vp-p 17KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
PWM
IC202-26 3.1Vp-p
P.B/REC 757Hz(SP)/370Hz (LP)
CUE/REV 5263Hz(SP)/3390Hz(LP)
FF/REW 4545Hz(SP/LP)
SHMIT
Q201 AMP
Q202 AMP
Q203
FROM SYSTEM CONTROL
SLOW/STILL/STOP Ⓛ
CUE/REV Ⓗ
MOTOR CURRENT IS FED BACK TO THE TORQUE CONTROL
ERROR VOLTAGE
R2005
R2004
CURRENT IN SLOW MODE 560mV
IC2001 (BA6430S) (CAPSTAN MOTOR DRIVE)
MOTOR DRIVE
UNREG +14V
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
IC2001 ①③㉓ 2.2Vp-p
TORQUE DIRECTION
POSITION SIGNAL PROCESS
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
P2002
H3
H3'
H2
H2'
H1
H1'
DD CAPSTAN MOTOR
M1
M2
M3
N
S
FG 2
FG 1
P2002
CYL ERROR
P2001
PG/FG
IC2901-1
IC2901-2
IC2901-17
IC2901 (AN3812K)
M1
M2
M3
MOTOR 5V
5V
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SHMIT
IC2901-8 0.35Vp-p
IC2901-9
0.8msec
HE
HE
HALL IC
HEM
HEM
CYLINDER DRIVE CIRCUIT (VEP00H22A)
DD CYLINDER MOTOR
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP

3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM



MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL
5.06MHz PHASE ROTATIONAL SIGNAL
TO RF CONVERTER
VIDEO OUT
FROM TUNER
VIDEO IN
TO 21PIN JACK-19
VIDEO OUT
VIDEO OUT
VIDEO IN
FROM 21PIN JACK-20
VIDEO IN
Q3901
BUFFER
FL3901
COMPENSATOR
D3901
IC3902 (BA7004)
TEST SIG
500K OSC
X3901
THIS SWITCH IS BUILT IN THE BNC CONNECTOR. WHEN THE BNC JACK CONNECTS, THIS SWITCH ENTERS A CAMERA SIDE AUTOMATICALLY.
TUNER
CAMERA
IC3901 TA7348P
INPUT/OUTPUT SELECT PACK C.B.A.
(VEP04173H : NV-D80EG)
(VEP04173J : NV-D80B)
(VEP04173K : NV-D80EV)
SUB DIGITAL C.B.A.
(VEP03414A)
REFER TO DIGITAL BLOCK DIAGRAM
BP3301
TO SERVO
Vss
TO COLOUR
Hss
FROM SERVO
ART V SYNC
VIDEO IN
VIDEO SIGNAL
CLAMP
IC301 (VEFH03A)
L.P.F.
AGC
EE
VV
CLP
MUTE
AMP
LUMINANCE SIGNAL
4MHz
Q3001
AMP
VIDEO OUT
VR3004
REG 5V
PICTURE VR
EDIT SW
OFF
ON
EDIT LNC
LOGIC
EE-VV DETAIL
DET
S·SEP
PULSE DELAY
LIM
DETAIL N.L.E.
NL DE
MIX
PIC CONT
NC
NL EMPHASIS
FL302
FM DEM
H.P.F.
R312
R313
2MHz PEAK
C315
C316
1.7MHz PEAK
L304
L305
QR301
QR302
QR303
E-REC
LP
MAIN EMPHASIS
100K 500K 2M Hz
DOC PULSE GEN
ENV DET
NLE
MAIN EMPH
DEV
FM MOD
W/D CLIP
SYNC TIP
WHITE LEVEL
FM MODURATION
FREQUENCY
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
IC303 (MSM6985-3RS)
1H DELAY
CLAMP
CCD
SCHMITT
X301
Q303
REG 5V
FL303
Y-BAL
VR302
DL801
2H DELAY
IC302 (AN3494NK)
-4.1
Nor
Do
DL
-3dB
LNC
4dB
GCA
VR301
5V
Y LEVEL
-9.5dB
LOG
EDIT
NR
TP8019
5.06MHz B.P.F.
VR603
PB CHROMA
1.6MHz L.P.F.
IC801 (VEFH04A)
COMB AMP
PB OUT AMP KILL SW
ACC DET
ACC
MAIN B.M
BURST UP
L802
DELAY
0.16Vp-p 5.06MHz
4.43MHz BPF
VIDEO IN
4MHz 4.43MHz
627KHz
627K 3.8M 4.8M (Hz)
REC OUT AMP KILL SW
REC CHROMA
PB AMP
RF CHROMA
L806, L809, C815, C818, C819
627KHz L.P.F.
VCXO
APC PC
SUB BM
5.02MHz VCO
1/321
AFC DET
AFC COMP.
KILL DET
1/8
ROTARY
DIGITAL M.M
MMV
X801
QR801
Q803
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03402D : NV-D80EG)
(VEP03402E : NV-D80EV/B)
FROM AUDIO & SYSTEM CTL
EE
FROM AUDIO
LP TRICK
FROM INPUT SELECT
COLOUR
FROM SERVO
ROTARY SW
FROM LUMINANCE
Hss IN
HSS IN
H. SW
REC.Y
RF.Y
L3004 C3009
627KHz TRAP
3.8M 4.8MHz
Q3004
FREQUENCY CONPENSATOR
C3024
C3010
L3006
C3019
L3005
C3021
VR3012
SPD
LPQ
VR3013
QR3007
QR3008
Q3005
AMP
TP3001
TP3001 PLAY
RF SIGNAL 0.2Vp-p
H.SW PULSE
5Vp-p 25Hz
BP3002-P502
REC-C
VR502
IC501 (AN3224K)
VR501
REC-Y
L502, L503, C502, C503
H.P.F
MIX
AMP
CURR AMP
BP3001-P501
1ST & 2ND AMP
HEAD SW
H SW
ENVE SELECT
CHROMA AMP
PEAKING AMP
Q501
HEAD AMP OUTPUT
RF SIGNAL 120mVp-p

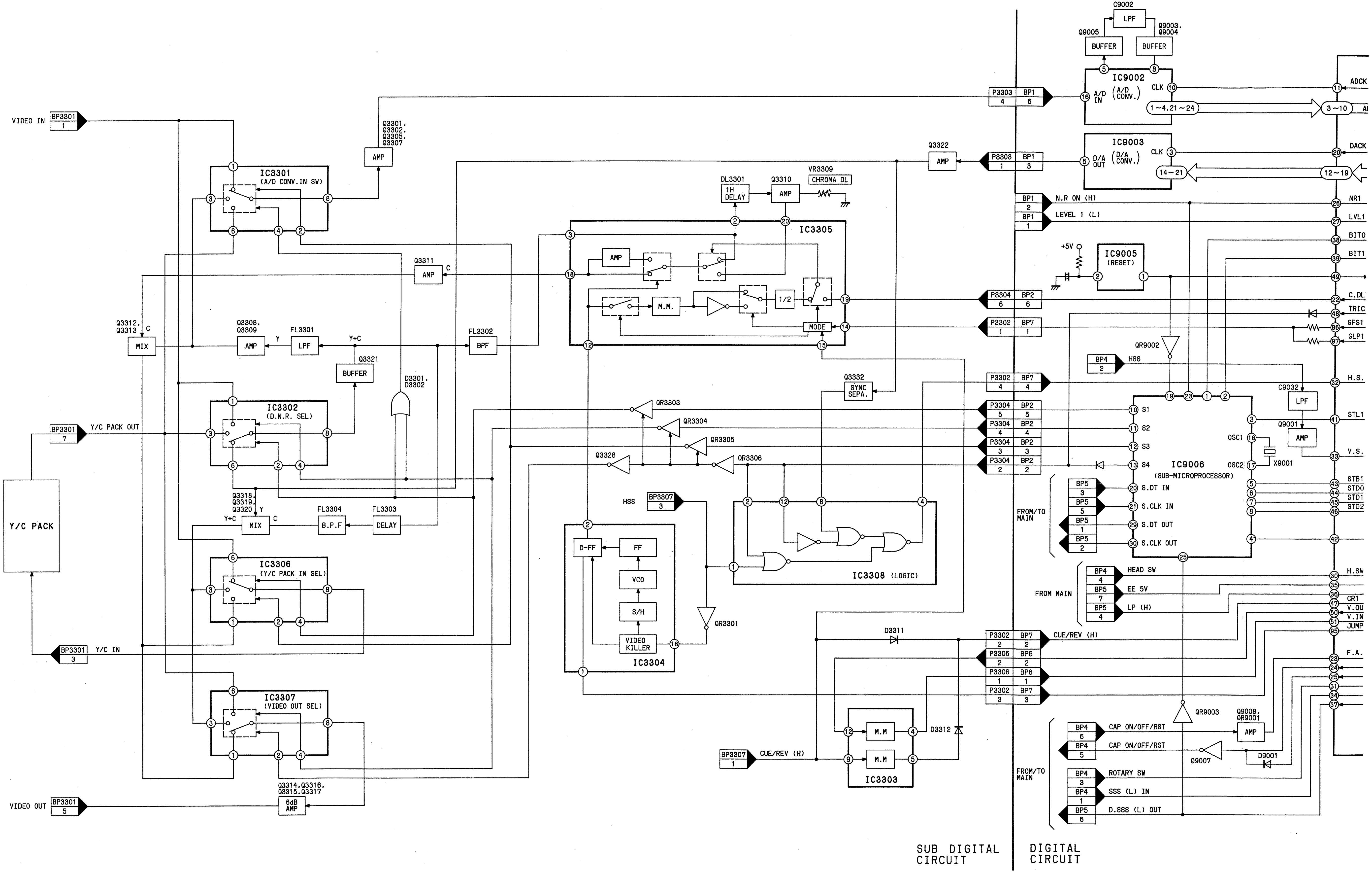
GRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

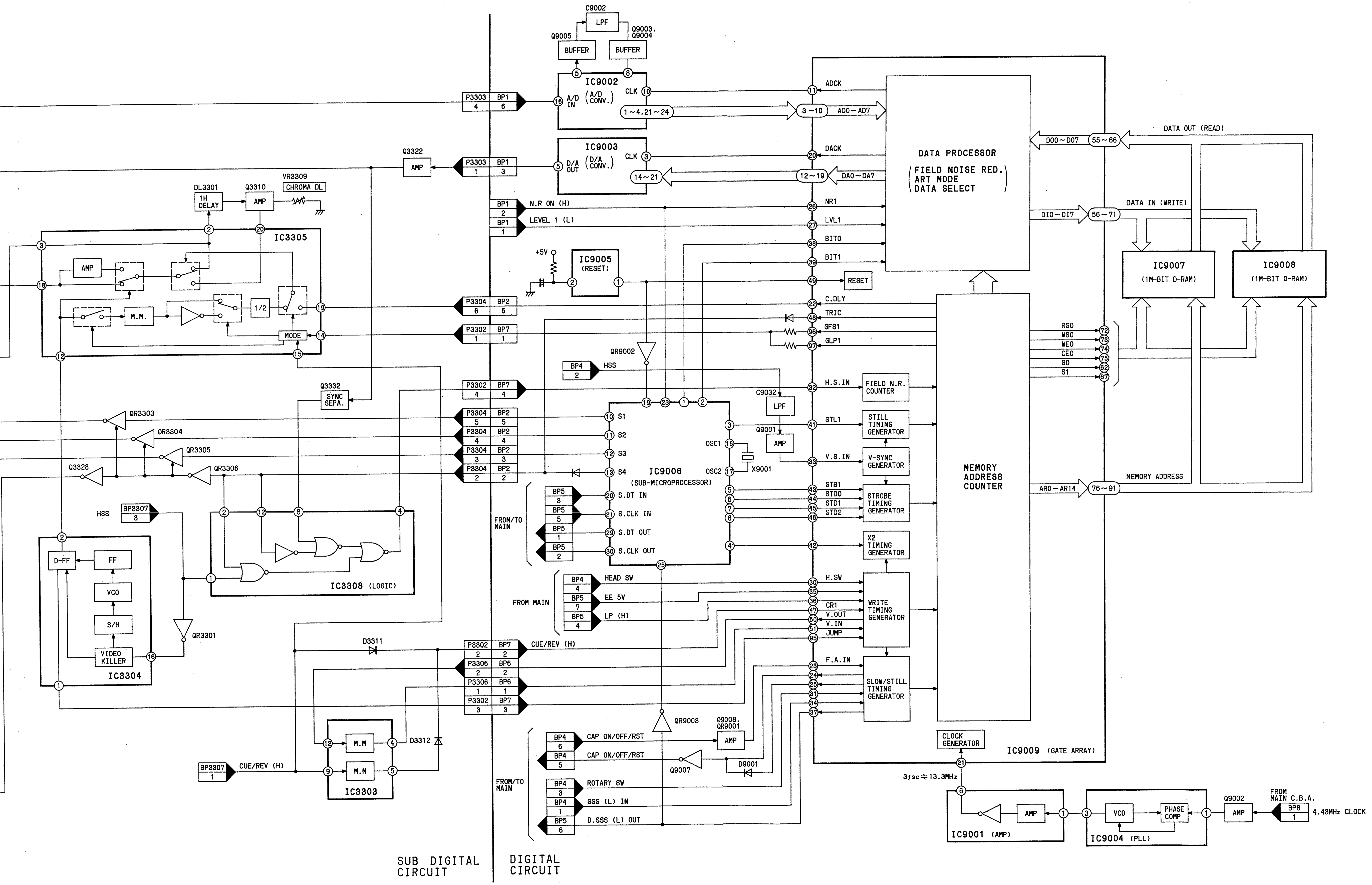
CLAMP
IC301 (VEFH03A)
L.P.F.
AGC
EE
VV
CLP
MUTE
AMP
FL302
FM DEM
LIM
H.P.F.
2MHz PEAK
R312
R313
C315
C316
1.7MHz PEAK
L304
L305
QR301
QR302
QR303
E-REC ⓗ
LP ⓗ
DOC PULSE GEN
ENV DET
MAIN EMPHASIS
100K 500K 2M
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
DET
S・SEP
PULSE DELAY
NLE
MAIN EMPH
DEV
FM MOD
LIM
DETAIL N.L.E.
NL DE
CLP
W/D CLIP
MIX
PIC CONT
NC
NL EMPHASIS
FREQUENCY
SYNC TIP
WHITE LEVEL
FM MODURATION
EDIT LNC
LOGIC
EE-VV DETAIL
IC303 (MSM6965-3RS)
1H DELAY
CCD
SCHMITT
X301
Q303
REG 5V
FL303
Y-BAL
VR302
DL801
2H DELAY
CHROMA PHASE
CHROMA BALANCE
VR801
VR802
IC302 (AN3494NK)
-4.1
DL
4dB
22dB
-3dB
LNC
LP
-10dB
-7dB
-12dB
TP301
GCA
VR301
Y LEVEL
NR
-9.5dB
EDIT
LOG
OFF
NOTE:
LNC: LINE NOISE CANCELL
TP8019
REG 6V
Q3003
(E・REC ⓗ: ON)
E・REC ⓛ
FROM SYSTEM CTL
E・REC ⓗ
ENVE SELECT
TO SERVO
HEAD AMP SW
FROM SERVO
HEAD SW
FROM SERVO
5.06MHz B.P.F.
VR803
PB CHROMA
1.6MHz L.P.F.
1.6MHz
IC801 (VEFH04A)
L802
DELAY
COMB AMP
PB OUT AMP KILL SW
ACC DET
0.16Vp-p 5.06MHz
REC OUT AMP KILL SW
REC CHROMA
4.43MHz BPF
ACC
MAIN B.M
BURST UP
627KHz
627K 3.8M 4.8M(Hz)
VIDEO IN
PB AMP
RF CHROMA
L806, L809, C815, C818, C819
627KHz L.P.F.
VCXO
APC PC
5.02MHz VCO
KILL DET
1/8
1/321
AFC COMP
AFC DET
SUB BM
ROTARY
DIGITAL M.M
MMV
X801
QR801
Q803
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03402D: NV-D80EG)
(VEP03402E: NV-D80EV/B)
H. SW
REC.Y
RF.Y
L3004 C3009
627KHz TRAP
3.8M 4.8MHz
Q3004
FREQUENCY COMPENSATOR
C3024
C3010
L3006
C3019
C3021
L3005
VR3012
VR3013
SPQ
LPQ
QR3008
QR3007
Q3005
TP3001
TP3001 PLAY
RF SIGNAL 0.2Vp-p
H.SW PULSE 5Vp-p 25Hz
FROM LUMINANCE
Hss IN
HSS IN
BP3002-P502
REC-C
VR502
REC-Y
VR501
IC501 (AN3224K)
L502, L503, C502, C503
CURR AMP
REC
P.B
(REC: ON)
BP3001-P501
IC502 AN3311S
1ST & 2ND AMP
HEAD SW
H SW
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
ENVE SELECT
PHASE COMPENSATOR
Q501
TP504
TP503
P002
VIDEO HEAD L'
VIDEO HEAD R'
VIDEO HEAD R
VIDEO HEAD L
HEAD AMP PACK C.B.A. (VEP05106C)
620±5μm
R (35μm)
L' (49μm)
R' (49μm)
L (35μm)
HEAD AMP OUTPUT
RF SIGNAL 120mVp-p
627K 3.8M 4.8M Hz

Next Page:
DIGITAL Section

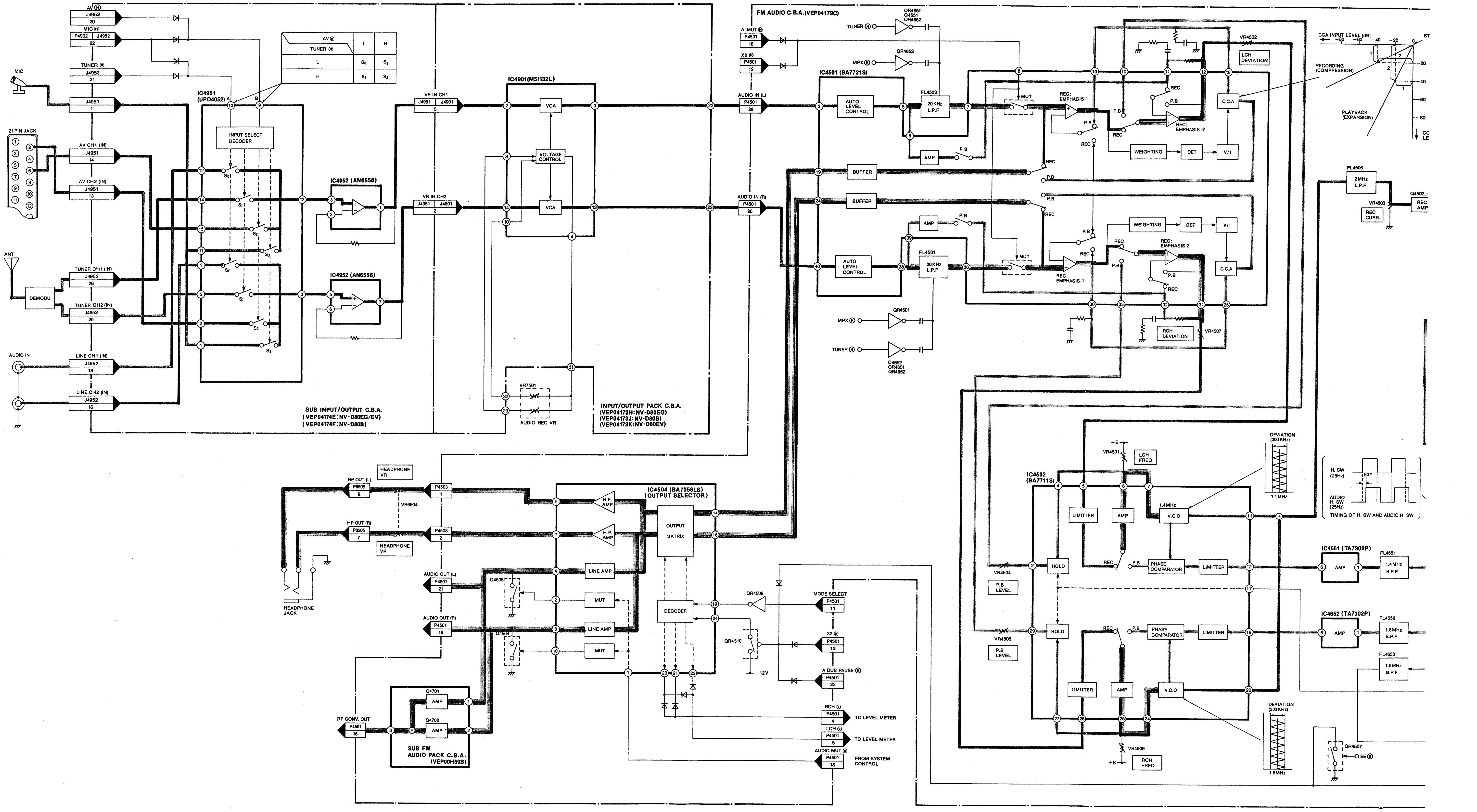
3-4. DIGITAL BLOCK DIAGRAM

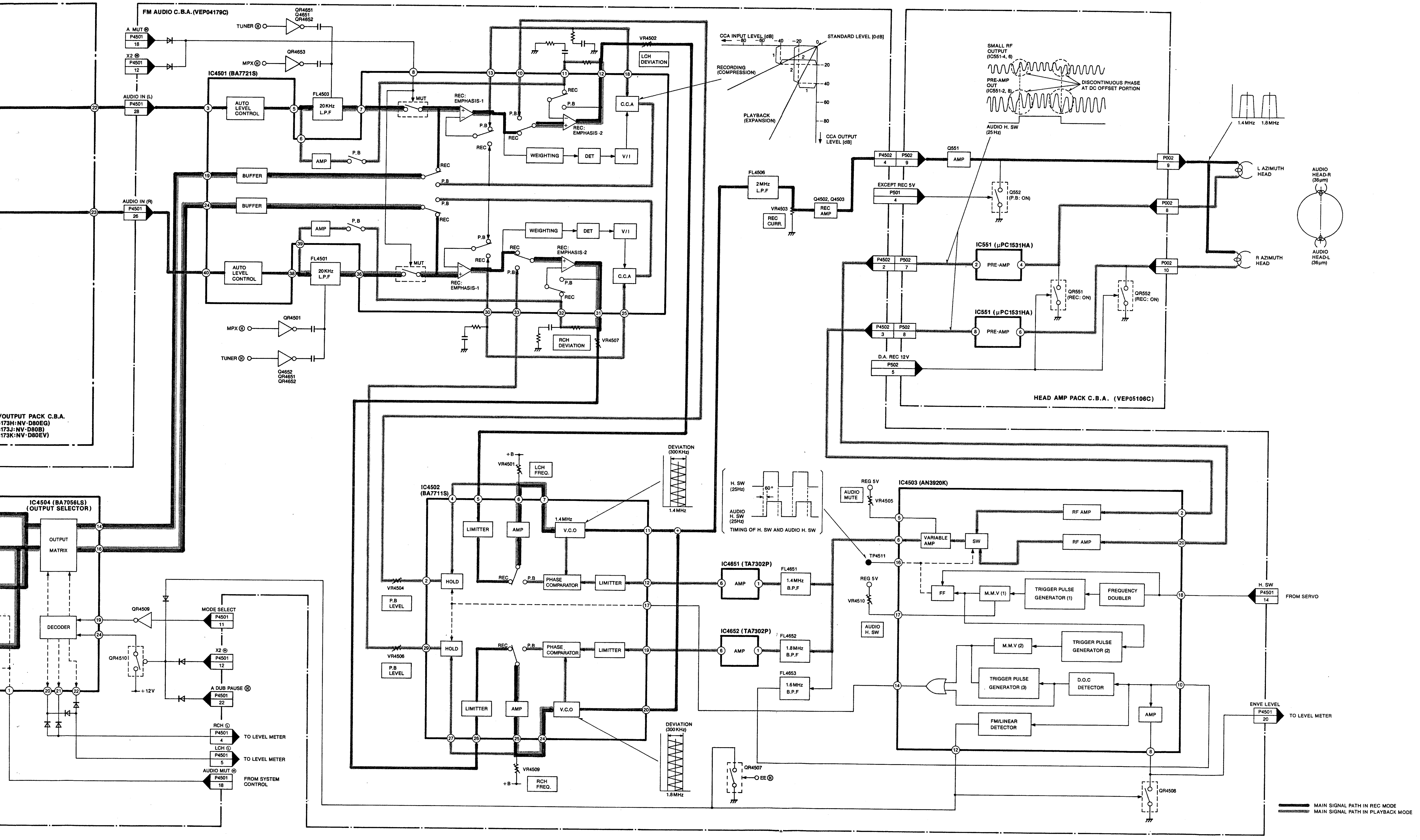


VIDEO IN
BP3301 1
IC3301 (A/D CONV.IN SW)
Q3301, Q3302, Q3305, Q3307
AMP
Q3311
C
Q3312, Q3313
MIX
Q3308, Q3309
Y
FL3301
LPF
Y+C
FL3302
BPF
Q3321
BUFFER
D3301, D3302
IC3302 (D.N.R. SEL)
BP3301 7
Y/C PACK OUT
Y/C PACK
Q3318, Q3319, Q3320
MIX
FL3304
B.P.F
FL3303
DELAY
IC3306 (Y/C PACK IN SEL)
BP3301 3
Y/C IN
IC3307 (VIDEO OUT SEL)
Q3314, Q3316, Q3315, Q3317
6dB AMP
VIDEO OUT
BP3301 5
DL3301
1H DELAY
Q3310
VR3309
CHROMA DL
IC3305
M.M.
1/2
MODE
Q3322
Q3332
SYNC SEPA.
QR3303
QR3304
QR3305
QR3306
Q3328
HSS
BP3307 3
IC3304
D-FF
FF
VCO
S/H
VIDEO KILLER
QR3301
IC3308 (LOGIC)
D3311
D3312
IC3303
M.M
BP3307 1
CUE/REV (H)
P3303 4 BP1 6
P3303 1 BP1 3
C9002
LPF
Q9005
Q9003, Q9004
BUFFER
IC9002
A/D IN
(A/D CONV.)
CLK
1~4,21~24
IC9003
D/A OUT
(D/A CONV.)
14~21
BP1 2
N.R ON (H)
BP1 1
LEVEL 1 (L)
+5V
IC9005 (RESET)
P3304 6 BP2 6
P3302 1 BP7 1
QR9002
BP4 2
HSS
C9032
P3302 4 BP7 4
P3304 5 BP2 5
P3304 4 BP2 4
P3304 3 BP2 3
P3304 2 BP2 2
S1
S2
S3
S4
IC9006 (SUB-MICROPROCESSOR)
OSC1
OSC2
X9001
Q9001
AMP
FROM/TO MAIN
BP5 3
S.DT IN
BP5 5
S.CLK IN
BP5 1
S.DT OUT
BP5 2
S.CLK OUT
FROM MAIN
BP4 4
HEAD SW
BP5 7
EE 5V
BP5 4
LP (H)
P3302 2 BP7 2
P3306 2 BP6 2
P3306 1 BP6 1
P3302 3 BP7 3
QR9003
Q9008, QR9001
BP4 6
CAP ON/OFF/RST
BP4 5
CAP ON/OFF/RST
Q9007
D9001
BP4 3
ROTARY SW
BP4 1
SSS (L) IN
BP5 6
D.SSS (L) OUT
ADCK
3~10
DACK
12~19
NR1
LVL1
BIT0
BIT1
C.DL
TRIC
GFS1
GLP1
H.S.
STL1
V.S.
STB1
STD0
STD1
STD2
H.SW
CR1
V.OU
V.IN
JUMP
F.A.
SUB DIGITAL CIRCUIT
DIGITAL CIRCUIT


C9002
LPF
Q9005
BUFFER
Q9003,
Q9004
BUFFER
IC9002
A/D IN
(A/D CONV.)
CLK
1~4,21~24
ADCK
3~10
AD0~AD7
P3303
BP1
4
6
IC9003
D/A OUT
(D/A CONV.)
14~21
12~19
DA0~DA7
DACK
Q3322
AMP
DL3301
1H DELAY
Q3310
AMP
VR3309
CHROMA DL
IC3305
AMP
M.M.
1/2
MODE
BP1
N.R ON (H)
LEVEL 1 (L)
NR1
LVL1
BIT0
BIT1
+5V
IC9005
(RESET)
RESET
P3304
BP2
C.DLY
TRIC
GFS1
GLP1
P3302
BP7
QR9002
BP4
HSS
Q3332
SYNC SEPA.
H.S.IN
C9032
LPF
Q9001
AMP
FIELD N.R. COUNTER
STILL TIMING GENERATOR
V-SYNC GENERATOR
STROBE TIMING GENERATOR
X2 TIMING GENERATOR
WRITE TIMING GENERATOR
SLOW/STILL TIMING GENERATOR
QR3303
QR3304
QR3305
QR3306
Q3328
S1
S2
S3
S4
IC9006
(SUB-MICROPROCESSOR)
OSC1
OSC2
X9001
STL1
V.S.IN
STB1
STD0
STD1
STD2
S.DT IN
S.CLK IN
S.DT OUT
S.CLK OUT
BP5
FROM/TO MAIN
HSS
BP3307
IC3308 (LOGIC)
D-FF
FF
VCO
S/H
VIDEO KILLER
IC3304
QR3301
FROM MAIN
HEAD SW
EE 5V
LP (H)
H.SW
CR1
V.OUT
V.IN
JUMP
F.A.IN
D3311
CUE/REV (H)
P3306
BP6
IC3303
M.M
D3312
CUE/REV (H)
QR9003
Q9008,
QR9001
AMP
CAP ON/OFF/RST
Q9007
D9001
ROTARY SW
SSS (L) IN
D.SSS (L) OUT
DATA PROCESSOR
FIELD NOISE RED.
ART MODE
DATA SELECT
DO0~DO7
55~66
DATA OUT (READ)
DI0~DI7
56~71
DATA IN (WRITE)
IC9007
(1M-BIT D-RAM)
IC9008
(1M-BIT D-RAM)
RS0
WS0
WE0
CE0
S0
S1
MEMORY ADDRESS COUNTER
AR0~AR14
76~91
MEMORY ADDRESS
CLOCK GENERATOR
IC9009 (GATE ARRAY)
3fsc≒13.3MHz
IC9001 (AMP)
AMP
IC9004 (PLL)
VCO
PHASE COMP
Q9002
AMP
FROM MAIN C.B.A.
BP8
4.43MHz CLOCK
SUB DIGITAL CIRCUIT
DIGITAL CIRCUIT

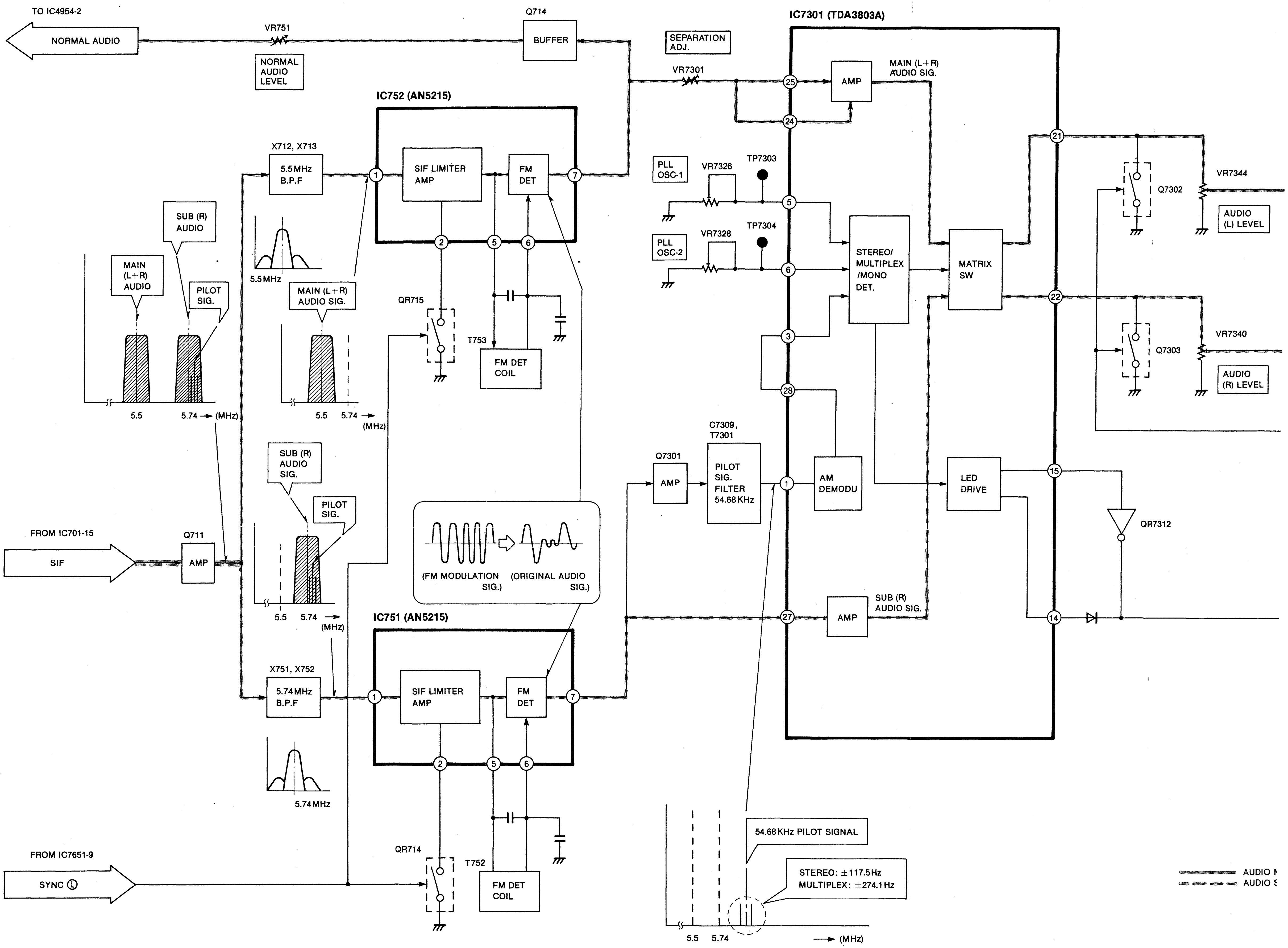
3-5. FM AUDIO BLOCK DIAGRAM

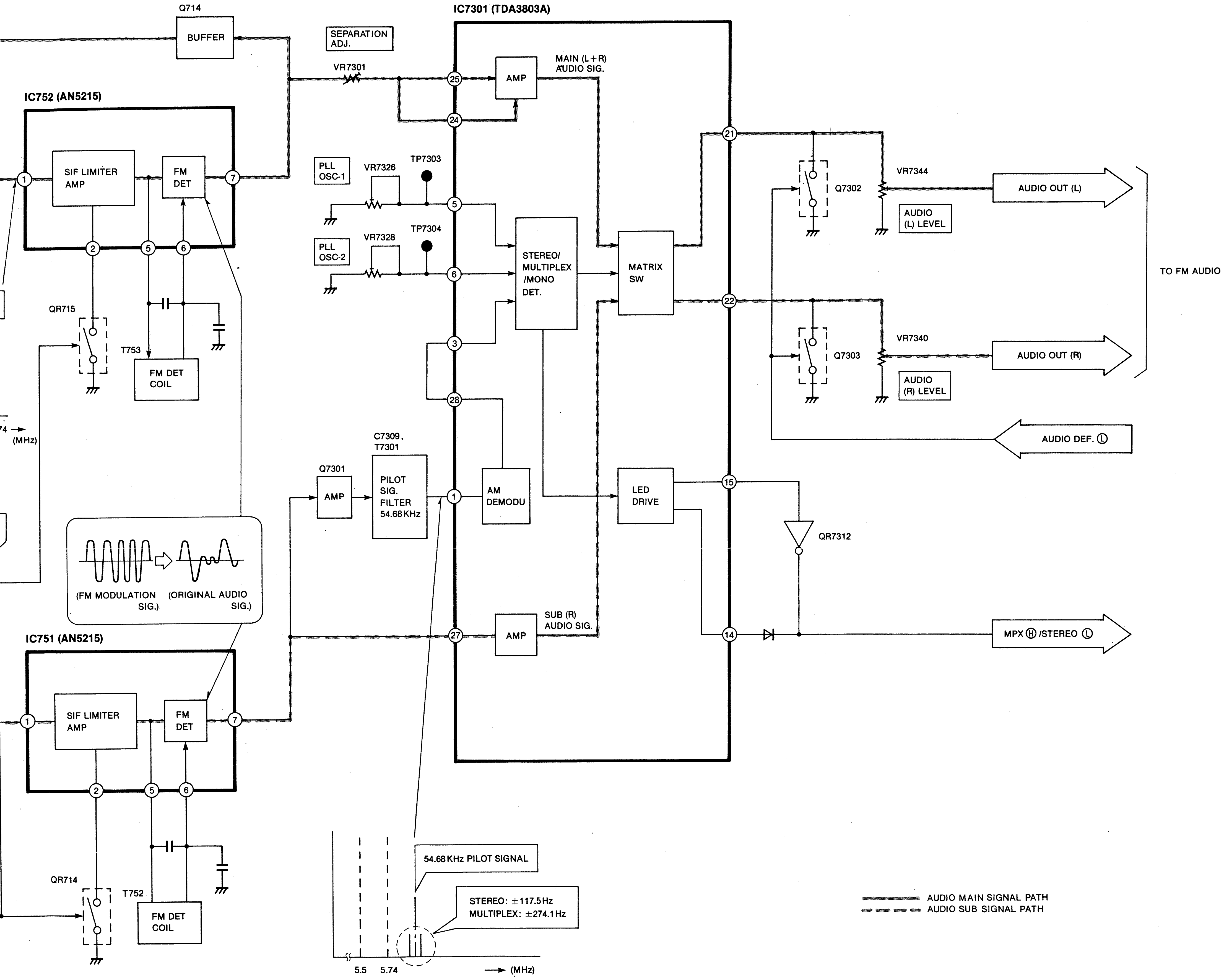

AV Ⓗ
J4952
20
MIC Ⓗ
P4902
J4952
22
TUNER Ⓗ
J4952
21
MIC
J4951
1
21PIN JACK
AV CH1 (IN)
J4951
14
AV CH2 (IN)
J4951
13
ANT
DEMODU
TUNER CH1 (IN)
J4952
26
TUNER CH2 (IN)
J4952
25
AUDIO IN
LINE CH1 (IN)
J4952
18
LINE CH2 (IN)
J4952
16
AV Ⓗ
TUNER Ⓗ
L
H
S0
S2
S1
S3
IC4951
(UPD4052)
A
B
INPUT SELECT
DECODER
IC4952 (AN6558)
IC4952 (AN6558)
SUB INPUT/OUTPUT C.B.A.
(VEP04174E:NV-D80EG/EV)
(VEP04174F:NV-D80B)
VR IN CH1
J4951
J4901
5
VR IN CH2
J4951
J4901
2
IC4901(M51132L)
VCA
VOLTAGE
CONTROL
VCA
VR7501
AUDIO REC VR
INPUT/OUTPUT PACK C.B.A.
(VEP04173H:NV-D80EG)
(VEP04173J:NV-D80B)
(VEP04173K:NV-D80EV)
FM AUDIO C.B.A.(VEP04179C)
A MUT Ⓗ
P4501
18
X2 Ⓗ
P4501
12
AUDIO IN (L)
P4501
28
AUDIO IN (R)
P4501
26
TUNER Ⓗ
QR4651
Q4651
QR4652
MPX Ⓗ
QR4653
IC4501 (BA7721S)
AUTO
LEVEL
CONTROL
FL4503
20KHz
L.P.F
MUT
AMP
P.B
BUFFER
BUFFER
REC
REC:
EMPHASIS-1
REC:
EMPHASIS-2
WEIGHTING
DET
V/I
C.C.A
VR4502
LCH
DEVIATION
AMP
FL4501
20KHz
L.P.F
AUTO
LEVEL
CONTROL
MPX Ⓗ
QR4501
TUNER Ⓗ
Q4652
QR4651
QR4652
RCH
DEVIATION
VR4507
CCA INPUT LEVEL [dB]
−80
−60
−40
−20
0
ST
RECORDING
(COMPRESSION)
PLAYBACK
(EXPANSION)
−20
−40
−60
−80
CC
LE
FL4506
2MHz
L.P.F
VR4503
REC
CURR.
Q4502,
REC
AMP
HEADPHONE
VR
HP OUT (L)
P6505
6
P4503
1
VR6504
HP OUT (R)
P6505
7
P4503
2
HEADPHONE
VR
HEADPHONE
JACK
AUDIO OUT (L)
P4501
21
AUDIO OUT (R)
P4501
19
Q4505
Q4504
IC4504 (BA7056LS)
(OUTPUT SELECTOR)
H.P.
AMP
H.P.
AMP
OUTPUT
MATRIX
LINE AMP
MUT
LINE AMP
MUT
DECODER
QR4509
QR4510
+12V
MODE SELECT
P4501
11
X2 Ⓗ
P4501
12
A DUB PAUSE Ⓗ
P4501
22
RCH Ⓛ
P4501
4
TO LEVEL METER
LCH Ⓛ
P4501
5
TO LEVEL METER
AUDIO MUT Ⓗ
P4501
18
FROM SYSTEM
CONTROL
RF CONV. OUT
P4501
16
Q4701
AMP
Q4702
AMP
SUB FM
AUDIO PACK C.B.A.
(VEP00H59B)
+B
VR4501
LCH
FREQ.
IC4502
(BA7711S)
LIMITTER
AMP
1.4MHz
V.C.O
DEVIATION
(300KHz)
1.4MHz
VR4504
P.B
LEVEL
HOLD
REC
P.B
PHASE
COMPARATOR
LIMITTER
VR4506
P.B
LEVEL
HOLD
PHASE
COMPARATOR
LIMITTER
LIMITTER
AMP
V.C.O
VR4509
+B
RCH
FREQ.
DEVIATION
(300KHz)
1.8MHz
H. SW
(25Hz)
60°
AUDIO
H. SW
(25Hz)
TIMING OF H. SW AND AUDIO H. SW
IC4651 (TA7302P)
AMP
FL4651
1.4MHz
B.P.F
IC4652 (TA7302P)
AMP
FL4652
1.8MHz
B.P.F
FL4653
1.6MHz
B.P.F
QR4507
EE Ⓗ


FM AUDIO C.B.A. (VEP04179C)
IC4501 (BA7721S)
AUTO LEVEL CONTROL
20KHz L.P.F
FL4503
FL4501
BUFFER
AMP
WEIGHTING
DET
V/I
C.C.A
LCH DEVIATION
RCH DEVIATION
VR4502
VR4507
MUT
REC: EMPHASIS-1
REC: EMPHASIS-2
TUNER
MPX
QR4651 Q4651 QR4652
QR4653
QR4501
Q4652 QR4651 QR4652
A. MUT
X2
AUDIO IN (L)
AUDIO IN (R)
P4501
CCA INPUT LEVEL [dB]
STANDARD LEVEL [0dB]
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL [dB]
FL4506
2MHz L.P.F
VR4503
REC CURR.
Q4502, Q4503
REC AMP
EXCEPT REC 5V
P501
P4502
P502
Q551
Q552 (P.B: ON)
SMALL RF OUTPUT (IC551-4, 6)
PRE-AMP OUT (IC551-2, 8)
DISCONTINUOUS PHASE AT DC OFFSET PORTION
AUDIO H. SW (25Hz)
IC551 (µPC1531HA)
PRE-AMP
QR551 (REC: ON)
QR552 (REC: ON)
D.A. REC 12V
P002
HEAD AMP PACK C.B.A. (VEP05106C)
1.4MHz 1.8MHz
L AZIMUTH HEAD
R AZIMUTH HEAD
AUDIO HEAD-R (36µm)
AUDIO HEAD-L (36µm)
/OUTPUT PACK C.B.A.
173H: NV-D80EG)
173J: NV-D80B)
173K: NV-D80EV)
IC4504 (BA7056LS) (OUTPUT SELECTOR)
OUTPUT MATRIX
DECODER
QR4509
QR4510
+12V
MODE SELECT
X2
A DUB PAUSE
RCH
LCH
AUDIO MUT
TO LEVEL METER
TO LEVEL METER
FROM SYSTEM CONTROL
IC4502 (BA7711S)
VR4501
LCH FREQ.
LIMITTER
AMP
V.C.O
1.4MHz
HOLD
PHASE COMPARATOR
VR4504
VR4506
P.B LEVEL
VR4509
RCH FREQ.
DEVIATION (300KHz)
1.8MHz
H. SW (25Hz)
AUDIO H. SW (25Hz)
60°
TIMING OF H. SW AND AUDIO H. SW
IC4651 (TA7302P)
IC4652 (TA7302P)
FL4651
1.4MHz B.P.F
FL4652
1.8MHz B.P.F
FL4653
1.6MHz B.P.F
REG 5V
VR4505
AUDIO MUTE
VR4510
AUDIO H. SW
TP4511
IC4503 (AN3920K)
VARIABLE AMP
SW
RF AMP
FF
M.M.V (1)
M.M.V (2)
TRIGGER PULSE GENERATOR (1)
TRIGGER PULSE GENERATOR (2)
TRIGGER PULSE GENERATOR (3)
FREQUENCY DOUBLER
D.O.C DETECTOR
FM/LINEAR DETECTOR
H. SW
FROM SERVO
ENVE LEVEL
TO LEVEL METER
QR4507
EE
QR4508
MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE

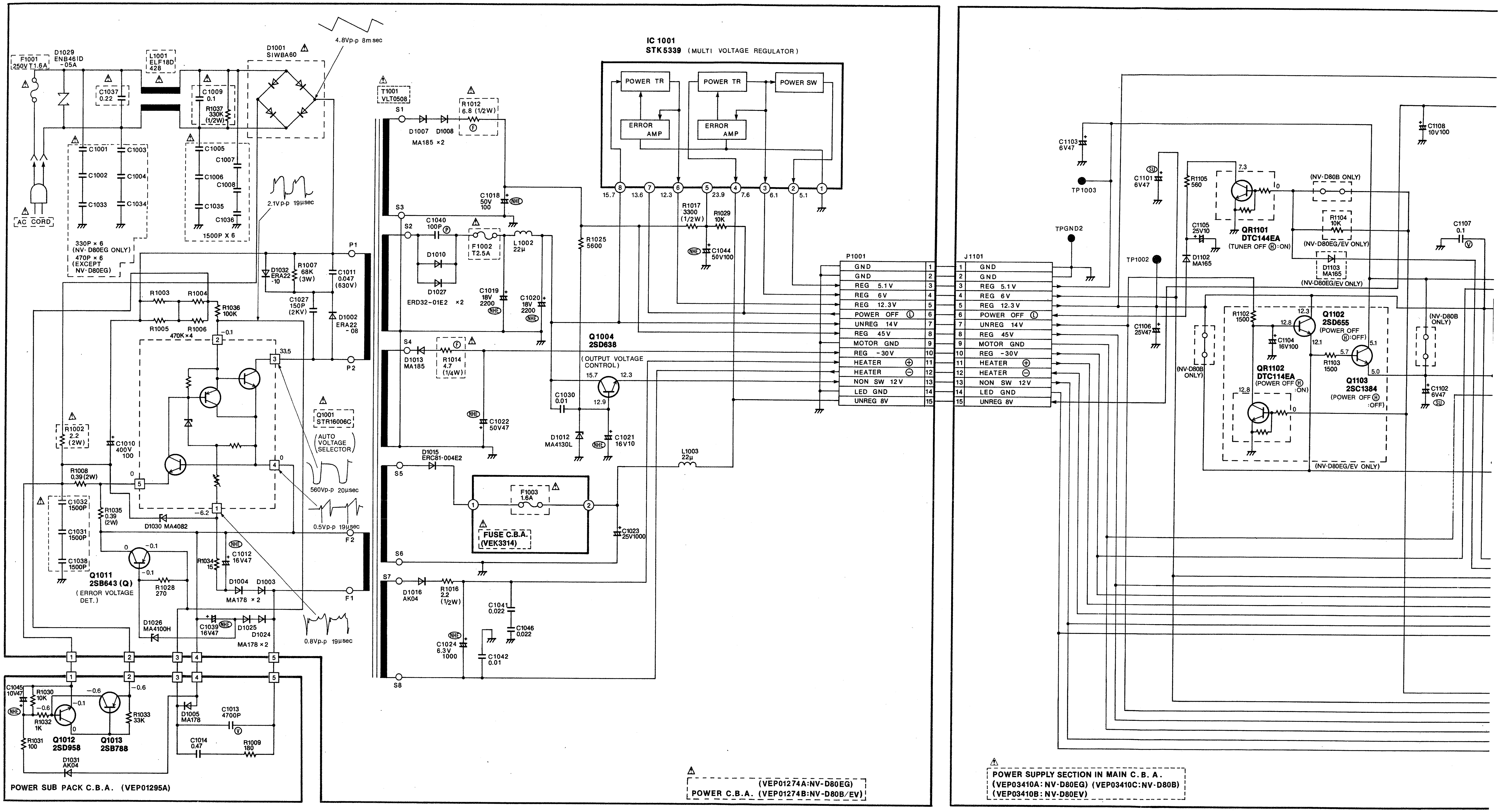
Next Page:
DECODER Section

3-6. DECODER BLOCK DIAGRAM


TO IC4954-2
NORMAL AUDIO
VR751
NORMAL AUDIO LEVEL
Q714
BUFFER
SEPARATION ADJ.
VR7301
IC7301 (TDA3803A)
AMP
MAIN (L+R) AUDIO SIG.
IC752 (AN5215)
X712, X713
5.5MHz B.P.F
SIF LIMITER AMP
FM DET
5.5MHz
MAIN (L+R) AUDIO SIG.
QR715
T753
FM DET COIL
SUB (R) AUDIO
MAIN (L+R) AUDIO
PILOT SIG.
5.5
5.74 → (MHz)
5.5
5.74 →
(MHz)
PLL OSC-1
VR7326
TP7303
PLL OSC-2
VR7328
TP7304
STEREO/ MULTIPLEX /MONO DET.
MATRIX SW
Q7302
VR7344
AUDIO (L) LEVEL
Q7303
VR7340
AUDIO (R) LEVEL
C7309, T7301
Q7301
AMP
PILOT SIG. FILTER 54.68KHz
AM DEMODU
LED DRIVE
QR7312
SUB (R) AUDIO SIG.
PILOT SIG.
FROM IC701-15
SIF
Q711
AMP
5.5
5.74 →
(MHz)
(FM MODULATION SIG.)
(ORIGINAL AUDIO SIG.)
IC751 (AN5215)
X751, X752
5.74MHz B.P.F
SIF LIMITER AMP
FM DET
5.74MHz
FROM IC7651-9
SYNC Ⓛ
QR714
T752
FM DET COIL
AMP
SUB (R) AUDIO SIG.
54.68KHz PILOT SIGNAL
STEREO: ±117.5Hz
MULTIPLEX: ±274.1Hz
5.5
5.74
→ (MHz)
AUDIO
AUDIO


Q714
BUFFER
IC7301 (TDA3803A)
SEPARATION ADJ.
VR7301
IC752 (AN5215)
SIF LIMITER AMP
FM DET
AMP
MAIN (L+R) AUDIO SIG.
PLL OSC-1
VR7326
TP7303
PLL OSC-2
VR7328
TP7304
STEREO/ MULTIPLEX /MONO DET.
MATRIX SW
Q7302
VR7344
AUDIO OUT (L)
AUDIO (L) LEVEL
TO FM AUDIO
Q7303
VR7340
AUDIO OUT (R)
AUDIO (R) LEVEL
AUDIO DEF. Ⓛ
QR715
T753
FM DET COIL
(MHz)
C7309, T7301
Q7301
AMP
PILOT SIG. FILTER 54.68 KHz
AM DEMODU
LED DRIVE
QR7312
(FM MODULATION SIG.)
(ORIGINAL AUDIO SIG.)
SUB (R) AUDIO SIG.
MPX Ⓗ /STEREO Ⓛ
IC751 (AN5215)
SIF LIMITER AMP
FM DET
QR714
T752
FM DET COIL
54.68 KHz PILOT SIGNAL
STEREO: ±117.5 Hz
MULTIPLEX: ±274.1 Hz
5.5
5.74
(MHz)
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH

3-7. POWER SCHEMATIC DIAGRAM


F1001 250V T1.6A
D1029 ENB461D -05A
AC CORD
L1001 ELF18D 428
C1037 0.22
C1009 0.1
R1037 330K (1/2W)
D1001 SIWBA60
4.8Vp-p 8msec
C1001
C1002
C1003
C1004
C1033
C1034
C1005
C1006
C1007
C1008
C1035
C1036
1500P X 6
330P × 6 (NV-D80EG ONLY)
470P × 6 (EXCEPT NV-D80EG)
2.1Vp-p 19μsec
D1032 ERA22 -10
R1007 68K (3W)
C1011 0.047 (630V)
C1027 150P (2KV)
D1002 ERA22 -08
P1
P2
R1003
R1004
R1005
R1006
470K × 4
R1036 100K
33.5
-0.1
R1002 2.2 (2W)
C1010 400V 100
R1008 0.39(2W)
C1032 1500P
C1031 1500P
C1038 1500P
R1035 0.39 (2W)
D1030 MA4082
-6.2
Q1011 2SB643 (Q) (ERROR VOLTAGE DET.)
R1028 270
R1034 15
C1012 16V47
D1004 D1003 MA178 × 2
D1026 MA4100H
C1039 16V47
D1025 D1024 MA178 × 2
Q1001 STR16006C (AUTO VOLTAGE SELECTOR)
560Vp-p 20μsec
0.5Vp-p 19μsec
0.8Vp-p 19μsec
F2
F1
T1001 VLT0508
S1
D1007 D1008 MA185 ×2
R1012 6.8 (1/2W)
C1018 50V 100
S3
S2
C1040 100P
D1010
D1027 ERD32-01E2 ×2
F1002 T2.5A
L1002 22μ
C1019 18V 2200
C1020 18V 2200
S4
D1013 MA185
R1014 4.7 (1/4W)
C1022 50V47
D1015 ERC81-004E2
S5
F1003 1.6A
FUSE C.B.A. (VEK3314)
C1023 25V1000
S6
S7
D1016 AK04
R1016 2.2 (1/2W)
C1041 0.022
C1046 0.022
C1024 6.3V 1000
C1042 0.01
S8
IC 1001 STK5339 (MULTI VOLTAGE REGULATOR)
POWER TR
POWER TR
POWER SW
ERROR AMP
ERROR AMP
15.7 13.6 12.3 23.9 7.6 6.1 5.1
R1017 3300 (1/2W)
R1029 10K
C1044 50V100
R1025 5600
Q1004 2SD638 (OUTPUT VOLTAGE CONTROL)
15.7 12.3 12.9
C1030 0.01
D1012 MA4130L
C1021 16V10
L1003 22μ
P1001
GND
GND
REG 5.1V
REG 6V
REG 12.3V
POWER OFF Ⓛ
UNREG 14V
REG 45V
MOTOR GND
REG -30V
HEATER ⊕
HEATER ⊖
NON SW 12V
LED GND
UNREG 8V
J1101
C1045 10V47
R1030 10K
R1032 1K
R1031 100
Q1012 2SD958
Q1013 2SB788
R1033 33K
D1031 AK04
D1005 MA178
C1013 4700P
C1014 0.47
R1009 180
POWER SUB PACK C.B.A. (VEP01295A)
(VEP01274A:NV-D80EG)
POWER C.B.A. (VEP01274B:NV-D80B/EV)
C1103 6V47
TP1003
TPGND2
TP1002
C1101 6V47
R1105 560
C1105 25V10
D1102 MA165
QR1101 DTC144EA (TUNER OFF Ⓗ:ON)
(NV-D80B ONLY)
R1104 10K
(NV-D80EG/EV ONLY)
D1103 MA165
(NV-D80EG/EV ONLY)
C1108 10V100
C1107 0.1
C1106 25V47
(NV-D80B ONLY)
R1102 1500
Q1102 2SD655 (POWER OFF Ⓗ:OFF)
C1104 16V100
QR1102 DTC114EA (POWER OFF Ⓗ:ON)
R1103 1500
Q1103 2SC1384 (POWER OFF Ⓗ:OFF)
(NV-D80EG/EV ONLY)
(NV-D80B ONLY)
C1102 6V47
POWER SUPPLY SECTION IN MAIN C.B.A.
(VEP03410A: NV-D80EG) (VEP03410C:NV-D80B)
(VEP03410B: NV-D80EV)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

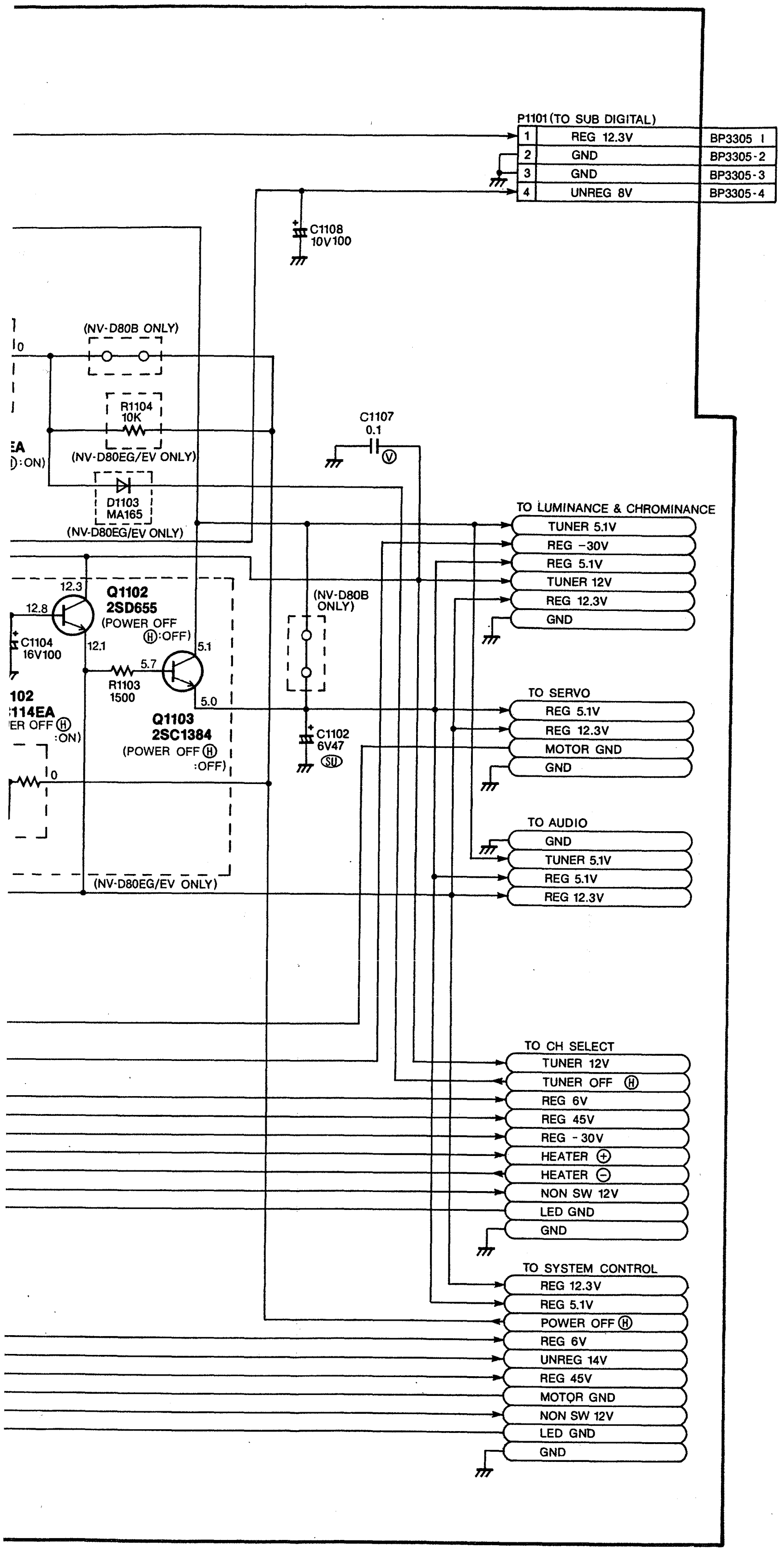
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS F

PRIMARY SIDE ..... Q1001-(5)

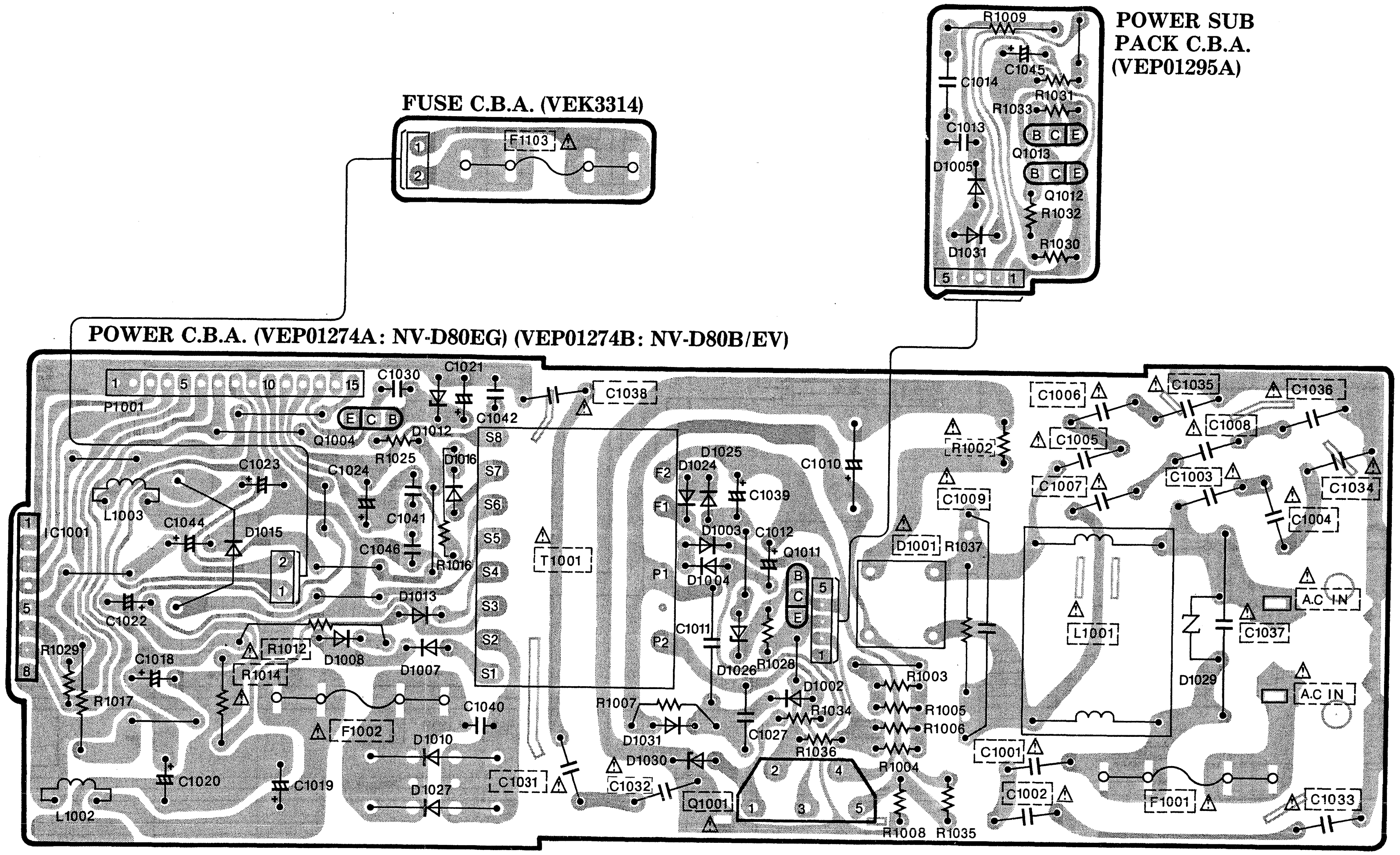
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE INPUT AC IS 220V.

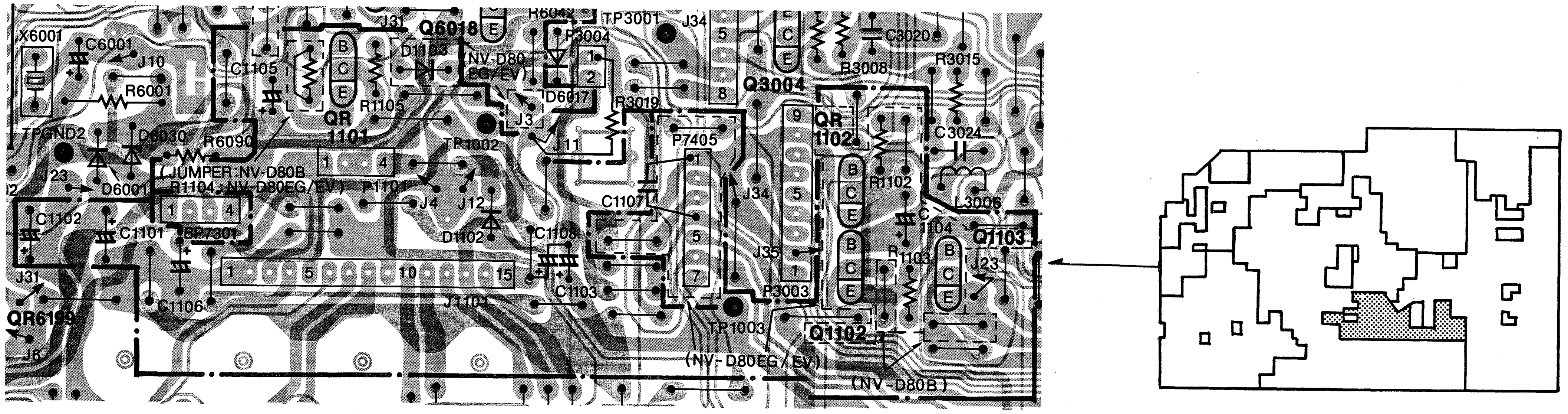

P1101 (TO SUB DIGITAL)
1 REG 12.3V BP3305-1
2 GND BP3305-2
3 GND BP3305-3
4 UNREG 8V BP3305-4
C1108 10V100
(NV-D80B ONLY)
R1104 10K
(NV-D80EG/EV ONLY)
D1103 MA165
(NV-D80EG/EV ONLY)
C1107 0.1
TO LUMINANCE & CHROMINANCE
TUNER 5.1V
REG -30V
REG 5.1V
TUNER 12V
REG 12.3V
GND
Q1102 2SD655 (POWER OFF Ⓗ:OFF)
C1104 16V100
R1103 1500
Q1103 2SC1384 (POWER OFF Ⓗ:OFF)
(NV-D80B ONLY)
C1102 6V47
TO SERVO
REG 5.1V
REG 12.3V
MOTOR GND
GND
TO AUDIO
GND
TUNER 5.1V
REG 5.1V
REG 12.3V
(NV-D80EG/EV ONLY)
TO CH SELECT
TUNER 12V
TUNER OFF Ⓗ
REG 6V
REG 45V
REG -30V
HEATER ⊕
HEATER ⊖
NON SW 12V
LED GND
GND
TO SYSTEM CONTROL
REG 12.3V
REG 5.1V
POWER OFF Ⓗ
REG 6V
UNREG 14V
REG 45V
MOTOR GND
NON SW 12V
LED GND
GND

ASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER
SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
Y SIDE ..... Q1001-(5)
ARY SIDE ... TP GND OF MAIN C.B.A.
LTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN
IS 220V.

3-8. POWER C.B.A. (VEP01274A: NV-D80EG) (VEP01274B: NV-D80B/EV)


FUSE C.B.A. (VEK3314)
F1103
POWER SUB PACK C.B.A. (VEP01295A)
R1009
C1014
C1045
R1031
R1033
C1013
Q1013
D1005
Q1012
R1032
R1030
D1031
POWER C.B.A. (VEP01274A: NV-D80EG) (VEP01274B: NV-D80B/EV)
P1001
IC1001
C1030
C1021
C1042
Q1004
D1012
C1038
R1025
D1016
D1025
D1024
C1010
C1039
C1023
C1024
C1041
C1046
R1016
D1003
C1012
Q1011
D1004
L1003
C1044
D1015
T1001
C1022
D1013
C1011
D1026
R1028
R1029
C1018
R1012
R1014
D1008
D1007
R1017
C1040
F1002
D1010
D1027
C1031
C1032
Q1001
C1020
C1019
L1002
R1007
D1031
D1030
D1002
R1034
R1036
C1027
R1003
R1005
R1006
R1004
R1008
R1035
C1006
C1035
C1036
R1002
C1005
C1008
C1009
C1007
C1003
C1034
C1004
D1001
R1037
L1001
A.C IN
C1037
D1029
A.C IN
C1001
C1002
F1001
C1033

3-9. POWER SUPPLY Section In Main C.B.A. (VEP03410A: NV-D80EG) (VEP03410C: NV-D80B) (VEP03410B: NV-D80EV)


X6001
C6001
J10
R6001
Q6018
J31
C1105
QR1101
R1105
D1103
(NV-D80EG/EV)
P3004
TP3001
J34
C3020
R3008
R3015
Q3004
D6017
R3019
J3
J11
TPGND2
D6030
R6090
(JUMPER: NV-D80B R1104: NV-D80EG/EV)
P1101
TP1002
P7405
QR1102
C3024
J23
D6001
J4
J12
R1102
L3006
C1102
C1101
BP7301
D1102
C1108
C1107
J34
Q1104
Q1103
J31
C1106
C1103
J35
R3003
R1103
J23
QR6199
J1101
TP1003
Q1102
J6
(NV-D80EG/EV)
(NV-D80B)

3-10. SYSTEM CONTROL SCHEMATIC DIAGRAM

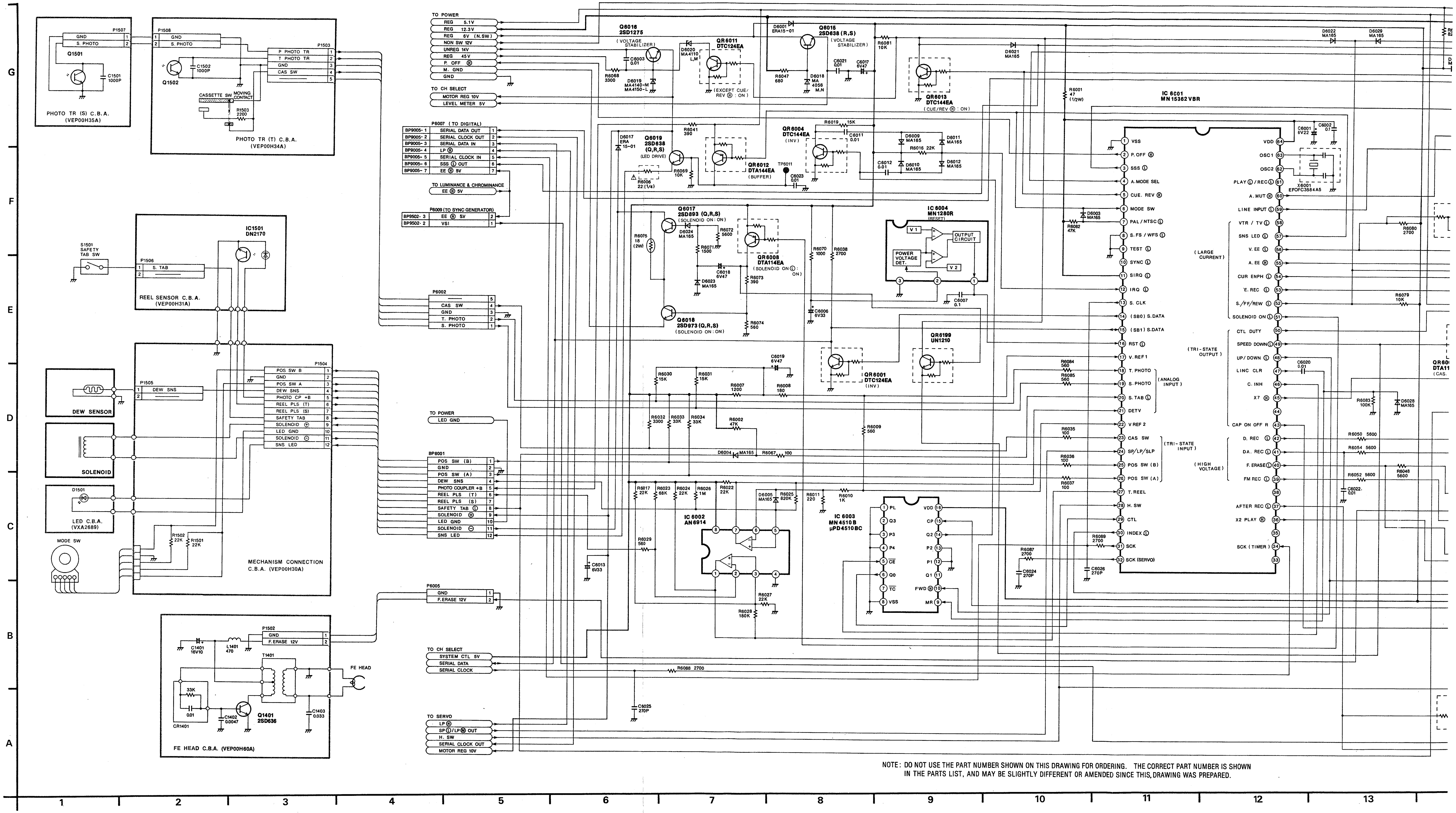
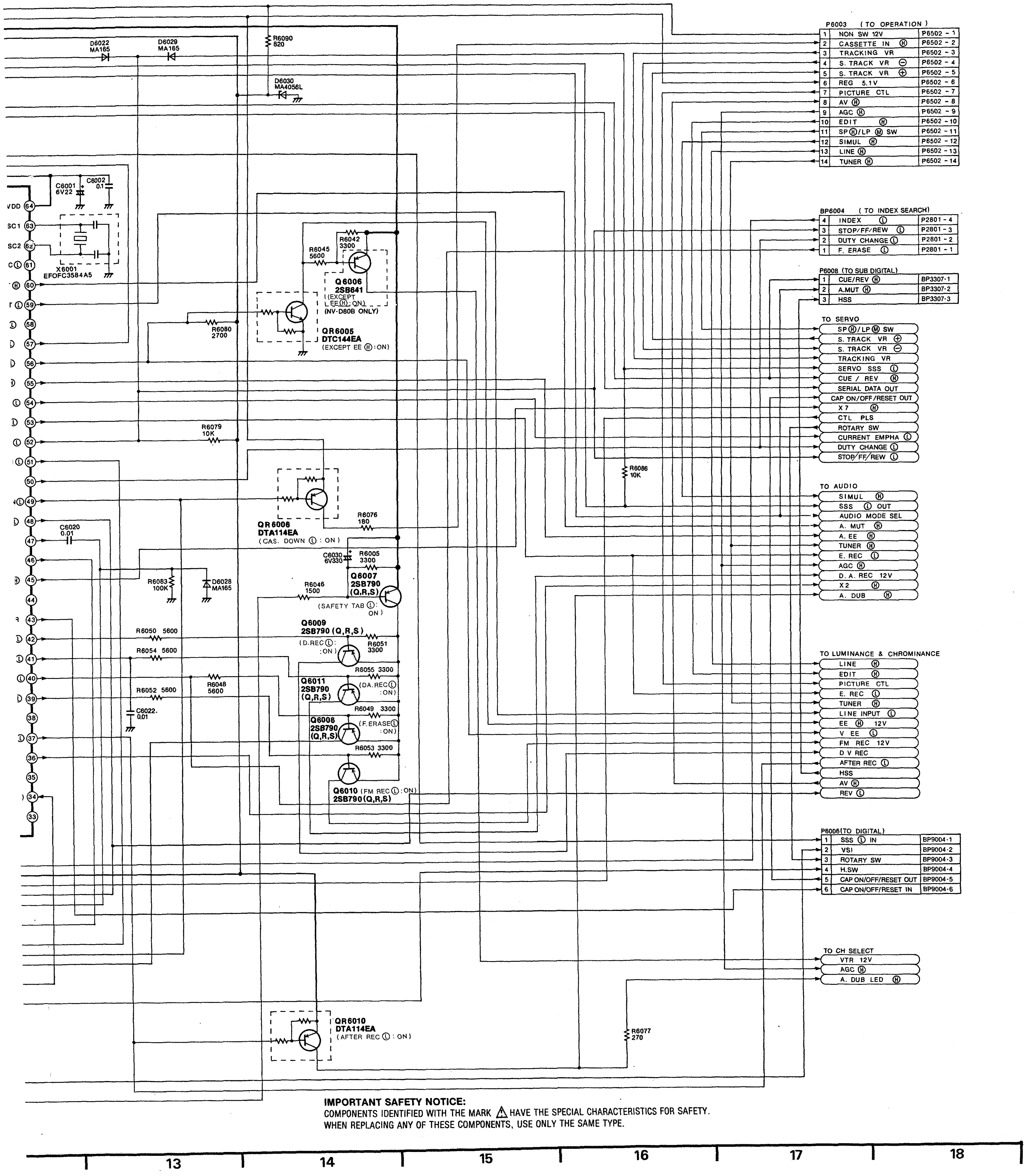


PHOTO TR (S) C.B.A. (VEP00H35A)
Q1501
C1501 1000P
P1507
GND
S. PHOTO
P1508
Q1502
C1502 1000P
CASSETTE SW
MOVING CONTACT
R1503 2200
PHOTO TR (T) C.B.A. (VEP00H34A)
P1503
P PHOTO TR
T PHOTO TR
CAS SW
S1501 SAFETY TAB SW
P1506
S. TAB
IC1501 DN2170
REEL SENSOR C.B.A. (VEP00H31A)
DEW SENSOR
P1505
DEW SNS
SOLENOID
LED C.B.A. (VXA2689)
D1501
MODE SW
R1502 22K
R1501 22K
MECHANISM CONNECTION C.B.A. (VEP00H30A)
P1504
POS SW B
POS SW A
PHOTO CP +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID ⊕
LED GND
SOLENOID ⊖
SNS LED
FE HEAD C.B.A. (VEP00H60A)
P1502
F.ERASE 12V
C1401 16V10
L1401 470
T1401
FE HEAD
Q1401 2SD636
C1402 0.0047
C1403 0.033
CR1401
33K
0.01
TO POWER
REG 5.1V
REG 12.3V
REG 6V (N.SW)
NON SW 12V
UNREG 14V
REG 45V
P. OFF Ⓗ
M. GND
TO CH SELECT
MOTOR REG 10V
LEVEL METER 5V
P6007 (TO DIGITAL)
SERIAL DATA OUT
SERIAL CLOCK OUT
SERIAL DATA IN
LP Ⓗ
SERIAL CLOCK IN
SSS Ⓛ OUT
EE Ⓗ 5V
TO LUMINANCE & CHROMINANCE
P6009 (TO SYNC GENERATOR)
VSI
P6002
T. PHOTO
S. PHOTO
LED GND
BP6001
PHOTO COUPLER +B
P6005
TO CH SELECT
SYSTEM CTL 5V
SERIAL DATA
SERIAL CLOCK
TO SERVO
LP Ⓜ
SP Ⓛ/LP Ⓜ OUT
H. SW
SERIAL CLOCK OUT
MOTOR REG 10V
Q6016 2SD1275 (VOLTAGE STABILIZER)
QR6011 DTC124EA
Q6015 2SD638 (R,S) (VOLTAGE STABILIZER)
QR6013 DTC144EA (CUE/REV Ⓡ : ON)
(EXCEPT CUE/REV Ⓡ : ON)
Q6019 2SD638 (Q,R,S) (LED DRIVE)
QR6012 DTA144EA (BUFFER)
QR6004 DTC144EA (INV)
TP6011
Q6017 2SD893 (Q,R,S) (SOLENOID ON : ON)
QR6008 DTA114EA (SOLENOID ON Ⓛ : ON)
Q6018 2SD973 (Q,R,S) (SOLENOID ON : ON)
IC 6004 MN1280R (RESET)
POWER VOLTAGE DET.
OUTPUT CIRCUIT
QR6199 UN1210
QR6001 DTC124EA (INV)
IC 6002 AN6914
IC 6003 MN4510B μPD4510BC
PL
Q3
P3
P4
CE
Q0
TC
VSS
VDD
CP
Q2
P2
P1
Q1
FWD
MR
IC 6C01 MN15382VBR
VSS
P. OFF Ⓗ
SSS Ⓛ
A.MODE SEL
CUE. REV Ⓡ
MODE SW
PAL/NTSC Ⓛ
S. FS / WFS Ⓛ
TEST Ⓛ
SYNC Ⓛ
SIRQ Ⓛ
IRQ Ⓛ
S. CLK
(SB0) S. DATA
(SB1) S.DATA
RST Ⓛ
V. REF 1
T. PHOTO
S. PHOTO
S. TAB Ⓛ
DETV
V REF 2
CAS SW
SP/LP/SLP
POS SW (B)
POS SW (A)
T. REEL
H. SW
CTL
INDEX Ⓛ
SCK
SCK (SERVO)
VDD
OSC1
OSC2
PLAY Ⓛ / REC Ⓛ
A. MUT Ⓗ
LINE INPUT Ⓛ
VTR / TV Ⓛ
SNS LED Ⓛ
V. EE Ⓛ
A. EE Ⓗ
CUR ENPH Ⓛ
E. REC Ⓛ
S./FF/REW Ⓛ
SOLENOID ON Ⓛ
CTL DUTY
SPEED DOWN Ⓛ
UP / DOWN Ⓛ
LINC CLR
C. INH
X7 Ⓗ
CAP ON OFF R
D. REC Ⓛ
DA. REC Ⓛ
F. ERASE Ⓛ
FM REC Ⓛ
AFTER REC Ⓛ
X2 PLAY Ⓗ
SCK (TIMER)
(LARGE CURRENT)
(TRI-STATE OUTPUT)
(ANALOG INPUT)
(TRI-STATE INPUT)
(HIGH VOLTAGE)
X6001 EFOFC3584A5
QR60 DTA11
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11
12
13

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Back Page:
POWER Section


P6003 (TO OPERATION)
1 NON SW 12V P6502 - 1
2 CASSETTE IN Ⓗ P6502 - 2
3 TRACKING VR P6502 - 3
4 S. TRACK VR ⊖ P6502 - 4
5 S. TRACK VR ⊕ P6502 - 5
6 REG 5.1V P6502 - 6
7 PICTURE CTL P6502 - 7
8 AV Ⓗ P6502 - 8
9 AGC Ⓗ P6502 - 9
10 EDIT Ⓗ P6502 - 10
11 SPⒽ/LP Ⓜ SW P6502 - 11
12 SIMUL Ⓗ P6502 - 12
13 LINE Ⓗ P6502 - 13
14 TUNER Ⓗ P6502 - 14
BP6004 (TO INDEX SEARCH)
4 INDEX Ⓛ P2801 - 4
3 STOP/FF/REW Ⓛ P2801 - 3
2 DUTY CHANGE Ⓛ P2801 - 2
1 F. ERASE Ⓛ P2801 - 1
P6008 (TO SUB DIGITAL)
1 CUE/REV Ⓗ BP3307-1
2 A.MUT Ⓗ BP3307-2
3 HSS BP3307-3
TO SERVO
SPⒽ/LPⓂ SW
S. TRACK VR ⊕
S. TRACK VR ⊖
TRACKING VR
SERVO SSS Ⓛ
CUE / REV Ⓗ
SERIAL DATA OUT
CAP ON/OFF/RESET OUT
X 7 Ⓗ
CTL PLS
ROTARY SW
CURRENT EMPHA Ⓛ
DUTY CHANGE Ⓛ
STOP/FF/REW Ⓛ
TO AUDIO
SIMUL Ⓗ
SSS Ⓛ OUT
AUDIO MODE SEL
A. MUT Ⓗ
A. EE Ⓗ
TUNER Ⓗ
E. REC Ⓛ
AGC Ⓗ
D. A. REC 12V
X 2 Ⓗ
A. DUB Ⓗ
TO LUMINANCE & CHROMINANCE
LINE Ⓗ
EDIT Ⓗ
PICTURE CTL
E. REC Ⓛ
TUNER Ⓗ
LINE INPUT Ⓛ
EE Ⓗ 12V
V EE Ⓛ
FM REC 12V
D V REC
AFTER REC Ⓛ
HSS
AV Ⓗ
REV Ⓛ
P6006(TO DIGITAL)
1 SSS Ⓛ IN BP9004-1
2 VSI BP9004-2
3 ROTARY SW BP9004-3
4 H.SW BP9004-4
5 CAP ON/OFF/RESET OUT BP9004-5
6 CAP ON/OFF/RESET IN BP9004-6
TO CH SELECT
VTR 12V
AGC Ⓗ
A. DUB LED Ⓗ
D6022 MA165
D6029 MA165
R6090 820
D6030 MA4056L
C6001 6V22
C6002 0.1
X6001 EFOFC3584A5
VDD 64
SC1 63
SC2 62
R6042 3300
R6045 5600
Q6006 2SB641 (EXCEPT EE Ⓗ : ON) (NV-D80B ONLY)
R6080 2700
QR6005 DTC144EA (EXCEPT EE Ⓗ : ON)
R6079 10K
R6086 10K
QR6006 DTA114EA (CAS. DOWN Ⓛ : ON)
R6076 180
C6020 0.01
C6030 6V330
R6005 3300
Q6007 2SB790 (Q,R,S) (SAFETY TAB Ⓛ: ON)
R6083 100K
D6028 MA165
R6046 1500
R6050 5600
R6054 5600
Q6009 2SB790 (Q,R,S) (D.REC Ⓛ: :ON)
R6051 3300
R6055 3300
Q6011 2SB790 (Q,R,S) (DA.REC Ⓛ :ON)
R6052 5600
R6048 5600
C6022 0.01
R6049 3300
Q6008 2SB790 (Q,R,S) (F.ERASE Ⓛ :ON)
R6053 3300
Q6010 (FM REC Ⓛ : ON) 2SB790(Q,R,S)
QR6010 DTA114EA (AFTER REC Ⓛ : ON)
R6077 270
13
14
15
16
17
18

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

SYSTEM CONTROL SCHEMATIC	
Transistor	
Q1401	A-3
Q1501	G-1
Q1502	G-2
Q6006	F-14
Q6007	D-14
Q6008	C-14
Q6009	D-14
Q6010	C-14
Q6011	C-14
Q6015	G-8
Q6016	G-6
Q6017	F-7
Q6018	F-7
Q6019	F-7
Transistor & Resistor	
QR6001	E-8
QR6004	F-8
QR6005	F-14
QR6006	E-14
QR6008	F-7
QR6010	A-14
QR6011	G-7
QR6012	F-8
QR6013	G-9
Integrated Circuit	
IC1501	E-3
IC6001	F-11
IC6002	C-7
IC6003	C-8
IC6004	F-9
Test Point	
TP6011	F-8
Connector	
P1502	B-3
P1504	D-3
P1505	D-2
P1506	E-2
P1507	G-1
P1508	G-2
P6002	E-4
P6003	G-17
P6005	B-4
P6006	B-17
P6007	G-4
P6008	F-17
P6009	F-4
BP6001	C-4
BP6004	F-17

ADDRESS INFORMATION

SYSTEM CONTROL ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	0	4.2	4.4	0	5.0	4.0	5.0	5.1	4.8	0.3	4.9	5.1	2.9	3.2	3.2	0.5
PLAY	0	0	5.1	0	0	4.3	4.4	0	5.1	4.0	5.1	5.1	4.8	0.3	4.9	5.2	2.9	3.2	3.2	0.5
REC	0	0	5.1	0	0	4.3	4.4	0	5.1	3.9	5.1	5.1	4.8	0.2	4.9	5.2	2.9	3.2	3.2	0.5
F.F	0	0	5.0	0	0	4.2	4.4	0	5.0	4.0	5.0	5.0	4.8	0.3	4.9	5.2	2.9	3.2	3.2	0.5
REW	0	0	5.1	0	0	4.3	4.4	0	5.1	4.0	5.1	5.0	0	0.3	4.9	5.2	2.9	3.2	3.2	0.5

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.0	2.1	0.1	2.1	5.2	0	0	0	5.0	4.8	5.0	4.9	4.8	5.0	0	5.0	5.0	12.1	12.1
PLAY	0	2.0	2.1	0.1	5.2	0	2.6	2.6	2.6	0	4.8	5.0	4.9	4.8	5.1	0	5.1	5.1	12.1	12.1
REC	0	2.0	2.1	0.1	5.2	0	2.6	2.6	2.6	0	4.8	5.0	4.9	4.8	5.1	0.1	5.1	5.1	0.2	0.3
F.F	0	2.0	2.1	0.1	2.1	5.2	2.6	0	2.6	5.0	4.8	5.0	4.9	4.8	0	0	5.0	5.0	12.1	12.1
REW	0	2.0	2.1	0.1	2.1	5.2	2.6	0	2.6	5.0	4.8	5.0	4.9	4.8	0	0	5.1	5.1	12.1	12.8

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	12.1	12.1	1.9	0	0.1	5.0	5.0	5.0	0.1	5.0	5.2	0.1	0.1	0.1	4.7	0.2	4.2	0	5.0	0
PLAY	12.1	12.1	5.0	0	0	0	5.1	5.0	0.1	5.1	5.2	4.1	0.1	4.7	0.1	4.6	4.2	0.1	5.1	0
REC	0.3	0.3	5.0	0.1	0.1	0.1	5.1	5.0	0.2	5.1	5.2	4.1	3.9	4.7	4.7	0.2	4.4	0	5.0	0
F.F	12.1	12.1	5.0	0	0	0	5.0	5.0	0.1	5.0	5.2	0.1	0.1	0.1	4.7	0.2	4.4	0	5.0	0
REW	12.1	12.1	5.0	0	0.1	0	5.1	0	0.1	5.0	5.2	0.1	0.1	0.1	4.7	0.2	4.4	0	5.0	0

REF. NO.	IC6001										IC6002									
MODE	61	62	63	64							1	2	3	4	5	6	7	8		
STOP	5.0	1.8	2.4	5.0							0	4.5	2.4	0	0	0.4	0	5.2		
PLAY	5.1	1.8	2.4	5.1							2.6	2.6	2.6	0	0	0.4	0	5.2		
REC	5.1	1.8	2.4	5.1							2.6	2.6	2.6	0	0	0.4	0	5.2		
F.F	5.0	1.8	2.4	5.0							2.6	2.6	2.6	0	0	0.4	0	5.2		
REW	5.1	1.8	2.4	5.0							2.6	2.6	2.6	0	0	0.4	0	5.2		

REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	5.0	0	5.2	0	0	5.0	5.2	0	0	5.1	0.6	5.2				
PLAY	0	0	0	0	0	2.6	5.2	0	0	5.0	2.6	0	0	2.6	0.3	5.2				
REC	0	0	0	0	0.1	2.6	5.2	0	0	5.0	5.2	0	0	2.6	2.6	5.2				
F.F	0	0.7	0	0	0	2.6	4.7	0	0	5.0	2.0	0	0	1.5	0.9	5.2				
REW	0	0.9	0	0	0	2.6	4.6	0	0	0	2.0	0	0	2.0	0.7	5.2				

REF. NO.	IC6004																			
MODE	1	2	3																	
STOP	5.2	5.2	0																	
PLAY	5.2	5.2	0																	
REC	5.2	5.2	0																	
F.F	5.2	5.2	0																	
REW	5.2	5.2	0																	

SYSTEM CONTROL TRs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q6006			Q6007			Q6008			Q6009			Q6010			Q6011		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.1	0	12.1	12.1	12.1	11.4	12.1	0.3	12.1	12.1	−0.2	12.1	12.1	0	12.1	12.1	0	12.1
PLAY	12.1	12.1	12.1	12.1	12.1	11.4	12.1	0.3	12.1	12.1	0.3	12.1	12.1	0	12.1	12.1	0	12.1
REC	11.6	0	11.6	11.5	11.4	10.7	11.4	11.2	10.6	11.4	11.3	10.7	11.4	11.3	10.7	11.4	11.3	10.7
F.F	12.1	0	12.1	12.1	12.1	11.4	12.1	0.4	12.1	12.1	−0.2	12.1	12.1	0	12.1	12.1	0	12.1
REW	12.1	0	12.1	12.1	12.1	11.4	12.1	0.3	12.1	12.1	−0.2	12.1	12.1	0	12.1	12.1	0	12.1

REF. NO.	Q6015			Q6016			Q6017			Q6018			Q6019			Q1401		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	5.8	5.7	13.2	14.6	14.4	13.2	13.2	4.6	0	13.2	0	0.7	13.2	0.6	0	0.4	0.3
PLAY	5.1	5.8	5.8	10.2	14.4	11.4	10.2	10.2	1.6	0	10.2	0	0.7	10.2	0.5	0	0.4	0.3
REC	5.1	5.8	5.7	10.2	14.3	11.4	10.2	10.2	1.6	0	10.2	0	0.1	10.2	0	0	11.3	−0.3
F.F	5.1	5.8	5.7	13.1	14.7	14.3	13.1	13.1	4.5	0	13.1	0	0.8	13.1	0.5	0	0.4	0.3
REW	5.1	5.8	5.7	13.1	14.7	14.3	13.1	13.1	4.5	0	13.1	0	0.7	13.1	0.5	0	0.4	0.3

REF. NO.	QR6001			QR6004			QR6005			QR6006			QR6008			QR6010		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	4.9	0.3	0	0	5.1	0	12.1	0.2	5.0	4.8	0.1	5.2	0	5.2	5.2	−0.1	5.0
PLAY	0	4.9	0.2	0	2.6	2.6	0	0	4.6	5.0	4.8	0.1	5.2	0	5.2	5.2	0.1	5.1
REC	0	5.2	0	0	2.6	2.6	0	11.5	0.2	5.6	4.9	0.2	5.2	0	5.2	11.4	11.3	10.7
F.F	0	4.9	0.2	0	2.9	2.1	0	12.1	0.2	5.0	4.8	0.1	5.2	0	5.2	5.2	0	5.0
REW	0	4.9	0.3	0	2.9	2.1	0	12.1	0.2	5.0	4.8	0.1	5.2	0	5.2	5.2	0.1	5.1

REF. NO.	QR6011			QR6012			QR6013			QR6199								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	3.4	0.6	5.0	0.6	4.5	0	0.6	0	0.1	0.6	0						
PLAY	0	0.1	3.7	5.0	0.6	4.2	0	3.7	0	0.1	3.7	0						
REC	0	0.1	3.7	5.0	0	5.0	0	3.7	0	0.2	3.7	0						
F.F	0	3.4	0.7	5.0	0.7	4.6	0	0.7	0	0.1	0.7	0						
REW	0	3.4	0.7	5.0	0.6	4.7	0	0.7	0	0.1	0.7	0						

SYSTEM CONTROL ICs DC VOLTAGE CHART (LP MODE)

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	0	4.2	4.4	0	5.0	4.0	5.0	5.1	4.8	0.3	4.9	5.1	2.9	3.2	3.2	0.5
PLAY	0	0	5.1	0	0	4.3	4.4	0	5.1	4.0	5.1	5.1	4.8	0.3	4.9	5.2	2.9	3.2	3.2	0.5
REC	0	0	5.1	0	0	4.3	4.4	0	5.1	3.9	5.1	5.1	4.8	0.2	4.9	5.2	2.9	3.2	3.2	0.5
F.F	0	0	5.0	0	0	4.2	4.4	0	5.0	4.0	5.0	5.0	4.8	0.3	4.9	5.2	2.9	3.2	3.2	0.5
REW	0	0	5.1	0	0	4.3	4.4	0	5.1	4.0	5.1	5.0	0	0.3	4.9	5.2	2.9	3.2	3.2	0.5
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.0	2.1	0.1	2.1	5.2	0	0	0	5.0	4.8	5.0	4.9	4.8	5.0	0	5.0	5.0	12.1	12.1
PLAY	0	2.0	2.1	0.1	5.2	0	4.9	2.6	2.6	5.0	4.8	5.0	4.9	4.8	5.1	0	5.1	5.1	12.1	12.8
REC	0	2.0	2.1	0.1	5.2	0	4.9	2.6	2.6	0	4.8	5.0	4.9	4.8	0.1	0.1	5.1	5.1	0.2	0.3
F.F	0	2.0	2.1	0.1	2.1	5.2	2.6	0	2.6	5.0	4.8	5.0	4.9	4.8	0	0	5.0	5.0	12.1	12.1
REW	0	2.0	2.1	0.1	2.1	5.2	2.6	0	2.6	5.0	4.8	5.0	4.9	4.8	0	0	5.1	5.1	12.1	12.8
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	12.1	12.1	1.9	0	0.1	5.0	5.0	5.0	0.1	5.0	5.2	0.1	0.1	0.1	4.7	0.2	4.2	0	5.0	0
PLAY	12.1	12.1	5.0	0	0	0	5.1	5.0	0.1	5.1	5.2	4.1	0.1	4.7	0.1	4.6	4.4	0.1	5.1	0
REC	0.3	0.3	5.0	0.1	0.1	0.1	0	5.0	0.2	5.1	5.2	4.1	3.9	4.7	4.7	0.2	4.4	0	5.0	0
F.F	12.1	12.1	5.0	0	0	0	5.0	5.0	0.1	5.0	5.2	0.1	0.1	0.1	4.7	0.2	4.4	0	5.0	0
REW	12.1	12.1	5.0	0	0.1	0	5.1	0	0.1	5.0	5.2	0.1	0.1	0.1	4.7	0.2	4.4	0	5.0	0
REF. NO.	IC6001										IC6002									
MODE	61	62	63	64							1	2	3	4	5	6	7	8		
STOP	5.0	1.8	2.4	5.0							0	4.5	2.4	0	0	0.4	0	5.2		
PLAY	0	1.8	2.4	5.1							2.6	2.6	2.6	0	0	0.4	0	5.2		
REC	0	1.8	2.4	5.1							2.6	2.6	2.6	0	0	0.4	0	5.2		
F.F	5.0	1.8	2.4	5.0							2.6	2.6	2.6	0	0	0.4	0	5.2		
REW	5.1	1.8	2.4	5.0							2.6	2.6	2.6	0	0	0.4	0	5.2		
REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	5.0	0	5.2	0	0	5.0	5.2	0	0	5.1	0.6	5.2				
PLAY	0	0	0	0	0	2.6	2.6	0	0	5.0	0	0	0	2.6	0.5	5.2				
REC	0	0	0	0	0.1	2.6	2.6	0	0	5.0	0	0	0	2.6	2.6	5.2				
F.F	0	0.7	0	0	0	2.6	4.7	0	0	5.0	2.0	0	0	1.5	0.9	5.2				
REW	0	0.9	0	0	0	2.6	4.6	0	0	0	2.0	0	0	2.0	0.7	5.2				
REF. NO.	IC6004																			
MODE	1	2	3																	
STOP	5.2	5.2	0																	
PLAY	5.2	5.2	0																	
REC	5.2	5.2	0																	
F.F	5.2	5.2	0																	
REW	5.2	5.2	0																	

SYSTEM CONTROL TRs DC VOLTAGE CHART (LP MODE)

REF. NO.	Q6006			Q6007			Q6008			Q6009			Q6010			Q6011		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.1	0	12.1	12.1	12.1	11.4	12.1	0.3	12.1	12.1	−0.2	12.1	12.1	0	12.1	12.1	0	12.1
PLAY	12.1	12.1	12.1	12.1	12.1	11.4	12.1	0.3	12.1	12.1	0.3	12.1	12.1	0	12.1	12.1	0	12.1
REC	11.6	0	11.6	11.5	11.4	10.7	11.4	11.2	10.6	11.4	11.3	10.7	11.4	11.3	10.7	11.4	11.3	10.7
F.F	12.1	0	12.1	12.1	12.1	11.4	12.1	0.4	12.1	12.1	−0.2	12.1	12.1	0	12.1	12.1	0	12.1
REW	12.1	0	12.1	12.1	12.1	11.4	12.1	0.3	12.1	12.1	−0.2	12.1	12.1	0	12.1	12.1	0	12.1
REF. NO.	Q6015			Q6016			Q6017			Q6018			Q6019			Q1401		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	5.8	5.7	13.2	14.6	14.4	13.2	13.2	4.6	0	13.2	0	0.7	13.2	0.6	0	0.4	0.3
PLAY	5.1	5.8	5.8	10.2	14.4	11.4	10.2	10.2	1.6	0	10.2	0	0.7	10.2	0.6	0	0.4	0.3
REC	5.1	5.8	5.7	10.2	14.3	11.4	10.2	10.2	1.6	0	10.2	0	0.1	10.2	0.6	0	11.3	−0.3
F.F	5.1	5.8	5.7	13.1	14.7	14.3	13.1	13.1	4.5	0	13.1	0	0.8	13.1	0.5	0	0.4	0.3
REW	5.1	5.8	5.7	13.1	14.7	14.3	13.1	13.1	4.5	0	13.1	0	0.7	13.1	0.5	0	0.4	0.3
REF. NO.	QR6001			QR6004			QR6005			QR6006			QR6008			QR6010		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	4.9	0.3	0	0	5.1	0	12.1	0.2	5.0	4.8	0.1	5.2	0	5.2	5.2	−0.1	5.0
PLAY	0	4.9	0.2	0	2.6	2.6	0	0	4.6	5.0	4.8	0.1	5.2	0	5.2	5.2	0.1	5.1
REC	0	5.2	0.2	0	2.6	2.6	0	11.5	0.2	5.0	4.9	0.2	5.2	0	5.2	5.2	0.1	5.1
F.F	0	4.9	0.2	0	2.9	2.1	0	12.1	0.2	5.0	4.8	0.1	5.2	0	5.2	5.2	0	5.0
REW	0	4.9	0.3	0	2.9	2.1	0	12.1	0.2	5.0	4.8	0.1	5.2	0	5.2	5.2	0.1	5.1
REF. NO.	QR6011			QR6012			QR6013			QR6199								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	3.4	0.6	5.0	0.6	4.5	0	0.6	0	0.1	0.6	0						
PLAY	0	0.1	3.7	5.0	0.6	4.2	0	3.7	0	0.1	3.7	0						
REC	0	0.1	3.7	5.0	0.6	5.0	0	3.7	0	0.2	3.7	0						
F.F	0	3.4	0.7	5.0	0.7	4.6	0	0.7	0	0.1	0.7	0						
REW	0	3.4	0.7	5.0	0.6	4.7	0	0.7	0	0.1	0.7	0						

3-11. SYSTEM CONTROL Section In Main C.B.A. (VEP03410A: NV-D80EG) (VEP

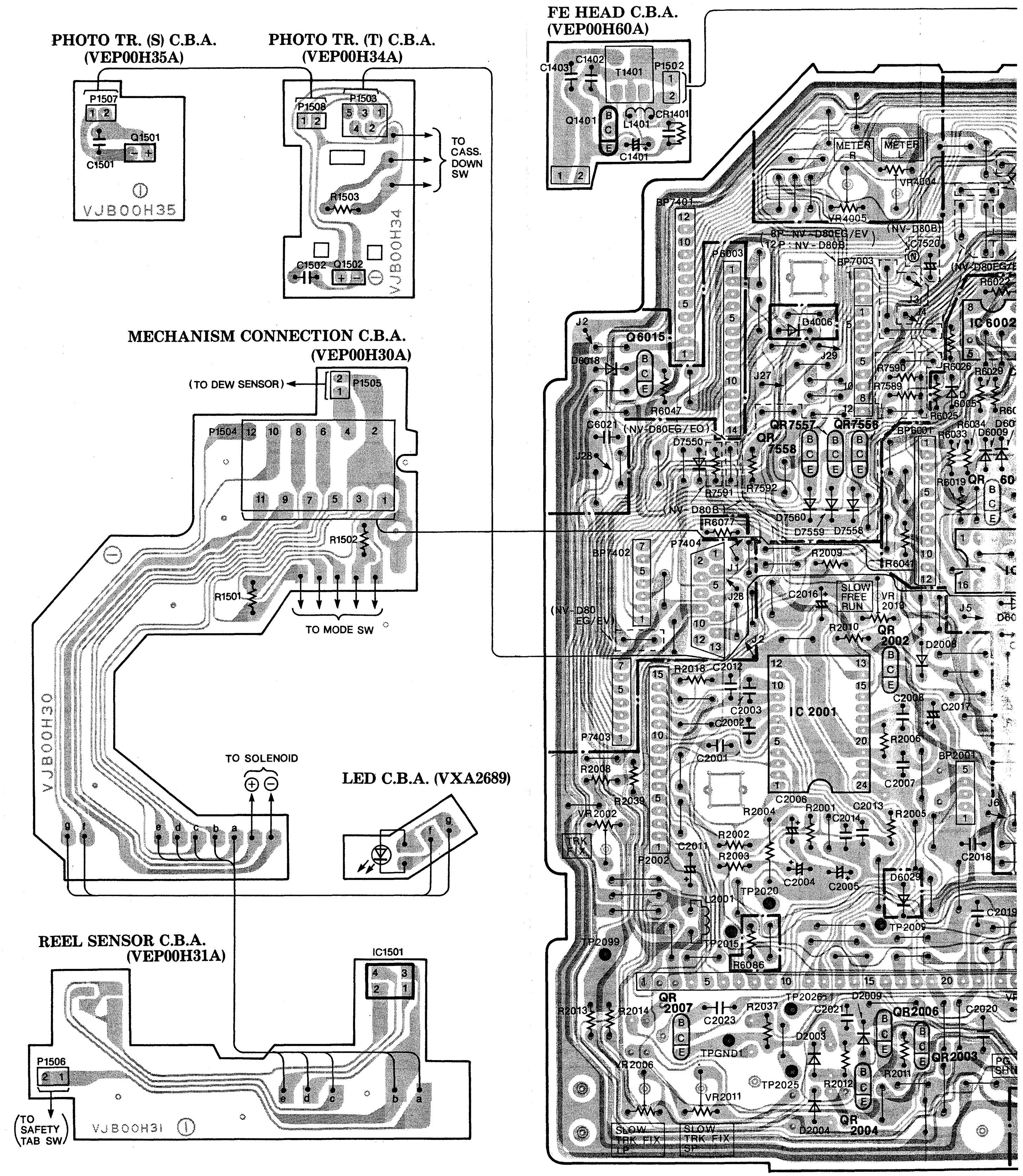
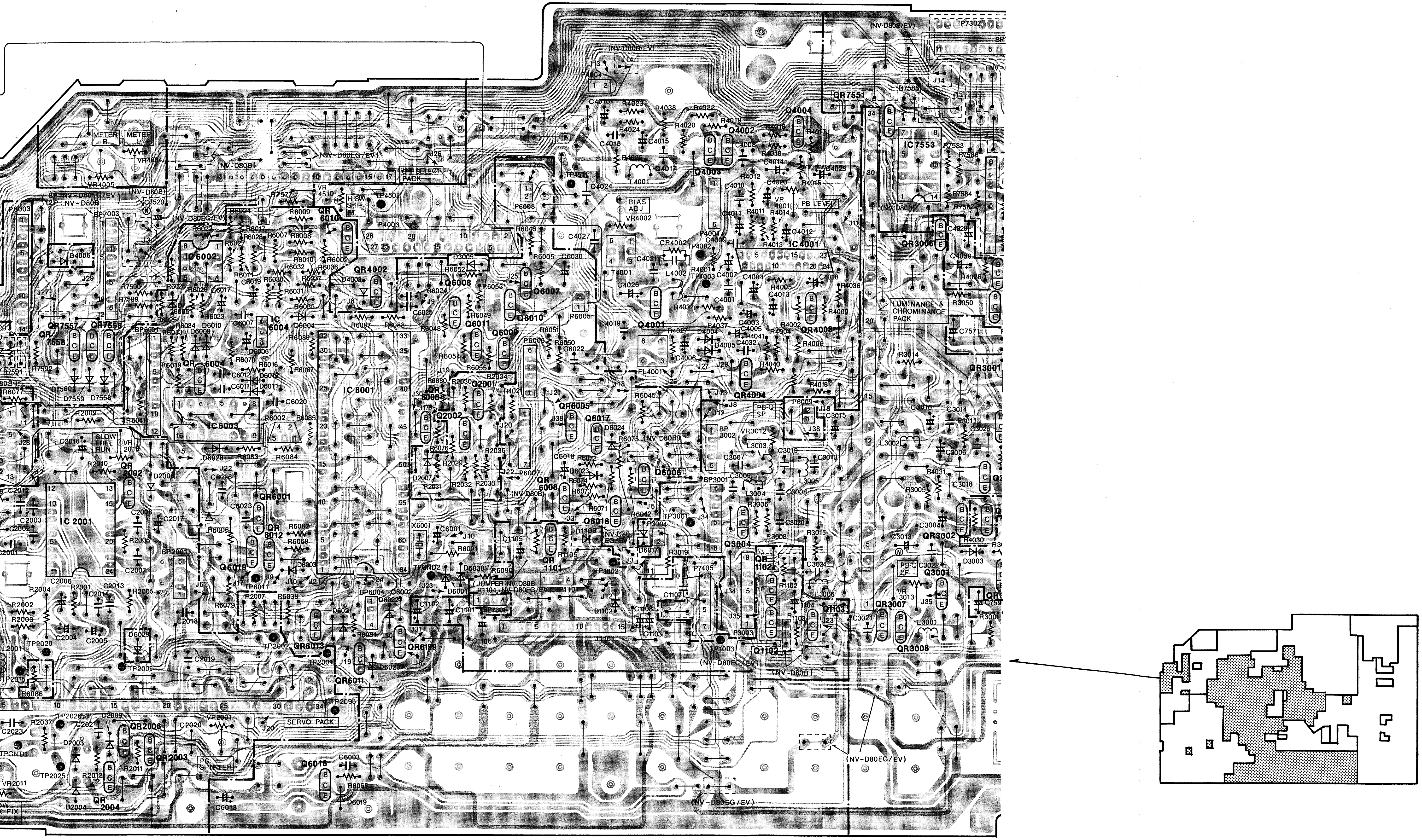


PHOTO TR. (S) C.B.A.
(VEP00H35A)
P1507
Q1501
C1501
VJB00H35
PHOTO TR. (T) C.B.A.
(VEP00H34A)
P1508
P1503
R1503
C1502
Q1502
VJB00H34
TO CASS. DOWN SW
FE HEAD C.B.A.
(VEP00H60A)
C1403
C1402
T1401
P1502
Q1401
L1401
CR1401
C1401
MECHANISM CONNECTION C.B.A.
(VEP00H30A)
(TO DEW SENSOR)
P1505
P1504
R1502
R1501
TO MODE SW
VJB00H30
TO SOLENOID
LED C.B.A. (VXA2689)
REEL SENSOR C.B.A.
(VEP00H31A)
IC1501
P1506
(TO SAFETY TAB SW)
VJB00H31
METER R
METER L
VR4004
VR4005
BP7401
8P : NV-D80EG/EV
12P : NV-D80B
(NV-D80B)
P6003
BP7003
IC6002
Q6015
D6018
J27
J29
R7590
R7589
R6047
C6021
(NV-D80EG/EQ)
QR7557
QR7558
QR7556
BP6001
D7550
R7591
R7592
(NV-D80B)
R6077
D7560
D7559
D7558
R6019
BP7402
P7404
R2009
R6041
(NV-D80EG/EV)
C2016
SLOW FREE RUN
VR2010
R2010
QR2002
D2008
R2018
C2012
C2003
C2002
IC 2001
R2006
C2008
C2017
BP2001
P7403
R2008
C2001
C2007
VR2002
R2039
R2004
C2006
R2001
C2013
R2005
C2014
TRK FIX
R2002
R2003
C2011
C2004
C2005
D6029
C2018
TP2020
L2001
TP2099
TP2015
TP2009
C2019
R6086
R2013
R2014
QR2007
C2023
R2037
TP2026
D2009
C2021
QR2006
C2020
TPGND1
D2003
QR2003
VR2006
TP2025
R2012
R2011
VR2011
D2004
QR2004
SLOW TRK FIX
SLOW TRK FIX

03410A: NV-D80EG) (VEP03410C: NV-D80B) (VEP03410B: NV-D80EV)



IC 2001
IC 6001
IC 6002
IC 6003
IC 6004
IC 4001
IC 7553
SERVO PACK
LUMINANCE & CHROMINANCE PACK
H.SW SHIFT
BIAS ADJ
PB LEVEL
SLOW FREE RUN
PG SHIFTER
CH SELECT PACK
METER R
METER L
PB-Q SP
PB-Q LP
(NV-D80EG/EV)
(NV-D80B)
(JUMPER: NV-D80B R1104: NV-D80EG/EV)
QR7551
QR7557
QR7558
QR7556
QR2002
QR2003
QR2004
QR2006
QR4002
QR4003
QR4004
QR6001
QR6004
QR6005
QR6006
QR6011
QR6012
QR6013
QR6019
QR6199
QR1101
QR1102
QR3001
QR3002
QR3006
QR3007
QR3008
Q4001
Q4002
Q4003
Q4004
Q6006
Q6007
Q6008
Q6009
Q6010
Q6011
Q6016
Q6017
Q6018
Q2001
Q2002
Q3001
Q3004
Q1102
Q1103
VR4510
VR4002
VR4001
VR4004
VR4005
VR2001
VR2011
VR2013
VR3012
VR3013
T4001
FL4001
X6001
L4001
L4002
L3001
L3002
L3003
L3004
L3005
L3006
BP3001
BP3002
BP6001
BP6004
BP7003
BP7301
BP2001
P4003
P4004
P6005
P6006
P6008
P6009
P7302
P7405
TP4501
TP4502
TP4002
TP4003
TP3001
TP2002
TP2001
TP2009
TP2020
TP2015
TP2025
TP2026
TP2096
TP1003
TP1002
TP6011
TPGND1
TPGND2

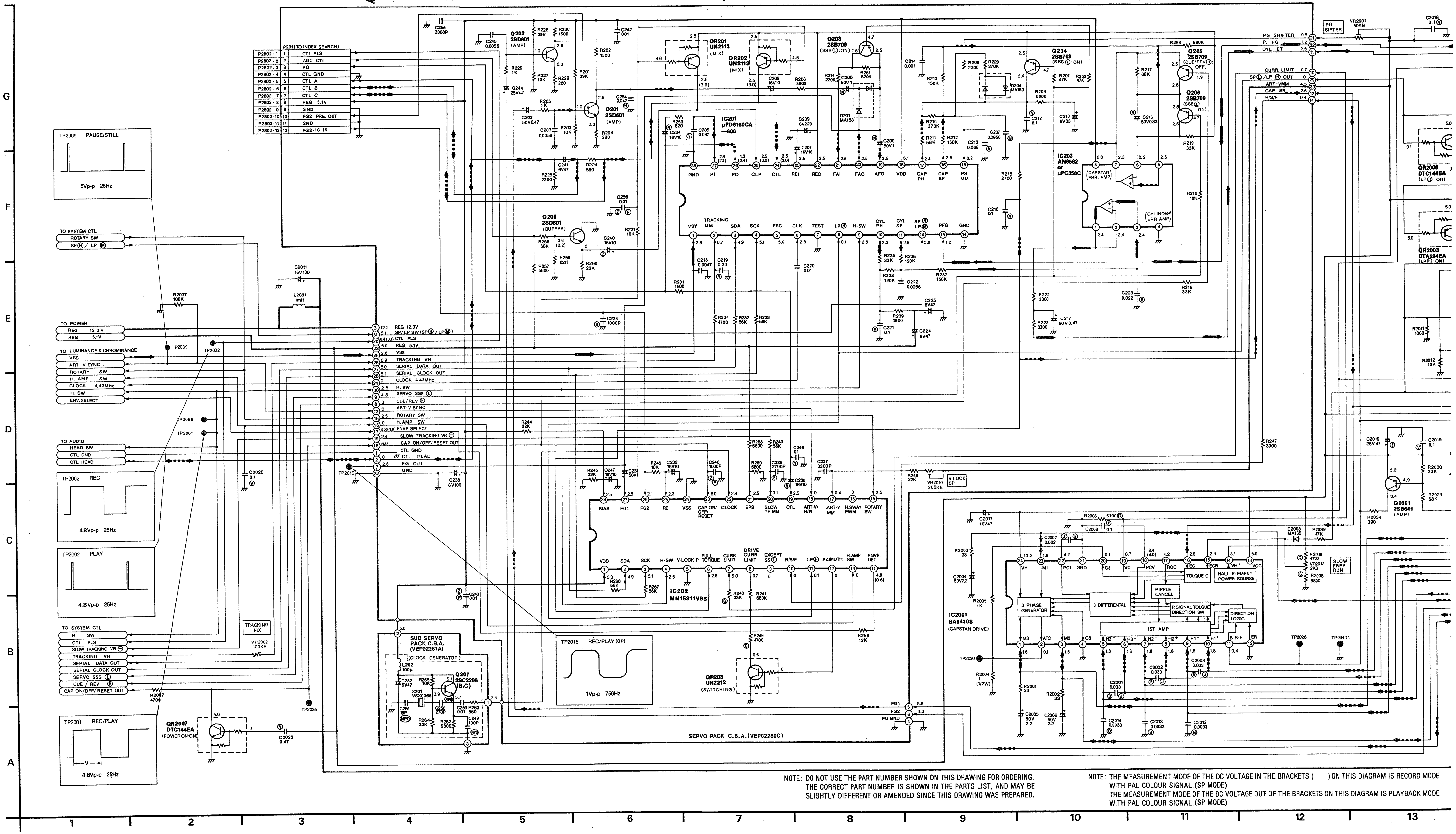
3-12. SERVO SCHEMATIC DIAGRAM

CYLINDER SERVO SPEED LOOP

CAPSTAN SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP

CAPSTAN SERVO PHASE LOOP

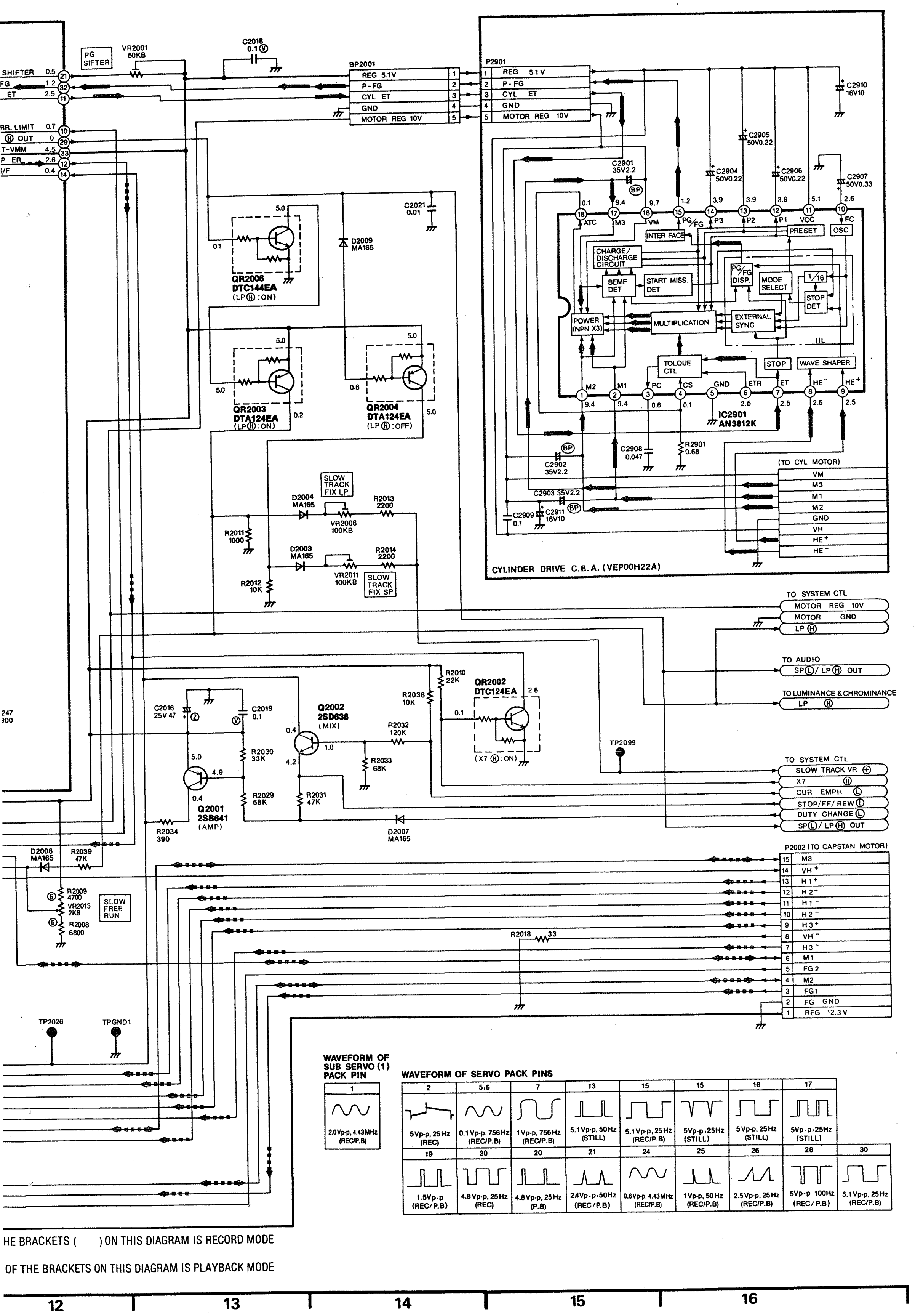

P201 (TO INDEX SEARCH)
CTL PLS
AGC CTL
PO
CTL GND
CTL A
CTL B
CTL C
REG 5.1V
GND
FG2 PRE. OUT
GND
FG2 · IC IN
TP2009 PAUSE/STILL
5Vp-p 25Hz
TO SYSTEM CTL
ROTARY SW
SP Ⓗ / LP Ⓜ
TO POWER
REG 12.3 V
REG 5.1V
TO LUMINANCE & CHROMINANCE
VSS
ART-V SYNC
ROTARY SW
H. AMP SW
CLOCK 4.43MHz
H. SW
ENV.SELECT
TO AUDIO
HEAD SW
CTL GND
CTL HEAD
TP2002 REC
4.8Vp-p 25Hz
TP2002 PLAY
4.8Vp-p 25Hz
TO SYSTEM CTL
H. SW
CTL PLS
SLOW TRACKING VR ⊖
TRACKING VR
SERIAL DATA OUT
SERIAL CLOCK OUT
SERVO SSS Ⓛ
CUE / REV Ⓡ
CAP ON/OFF/RESET OUT
TP2001 REC/PLAY
4.8Vp-p 25Hz
QR2007 DTC144EA (POWER ON:ON)
TRACKING FIX
VR2002 100KB
Q202 2SD601 (AMP)
Q201 2SD601 (AMP)
Q208 2SD601 (BUFFER)
QR201 UN2113 (MIX)
QR202 UN2113 (MIX)
Q203 2SB709 (SSS Ⓛ : ON)
Q204 2SB709 (SSS Ⓛ : ON)
Q205 2SB709 (CUE/REV Ⓡ : OFF)
Q206 2SB709 (SSS Ⓛ : ON)
IC201 μPD6160CA -606
GND PI PO CLP CTL REI REO FAI FAO AFG VDD CAP PH CAP SP PG MM
VSY TRACKING MM SDA SCK FSC CLK TEST LP Ⓜ H·SW CYL PH CYL SP SP Ⓗ LP Ⓜ PFG GND
IC203 AN6562 or μPC358C
(CAPSTAN ERR. AMP)
(CYLINDER ERR. AMP)
PG SHIFTER
P. FG
CYL ET
CURR. LIMIT
SP Ⓛ / LP Ⓜ OUT
ART-VMM
CAP ER
R/S/F
QR2006 DTC144EA (LP Ⓜ : ON)
QR2003 DTA124EA (LP Ⓜ : ON)
IC202 MN15311VBS
BIAS FG1 FG2 RE VSS CAP ON/OFF/RESET CLOCK EPS SLOW TR MM CTL ART-V H/N ART-V MM H.SWAY PWM ROTARY SW
VDD SDA SCK H-SW V-LOCK P FULL TORQUE CURR LIMIT DRIVE CURR. LIMIT EXCEPT SS Ⓛ R/S/F LP Ⓜ AZIMUTH H.AMP SW ENVE. DET
V. LOCK SP
SUB SERVO PACK C.B.A. (VEP02281A)
(CLOCK GENERATOR)
Q207 2SC2206 (B,C)
TP2015 REC/PLAY (SP)
1Vp-p 756Hz
QR203 UN2212 (SWITCHING)
SERVO PACK C.B.A. (VEP02280C)
FG1
FG2
FG GND
IC2001 BA6430S (CAPSTAN DRIVE)
3 PHASE GENERATOR
3 DIFFERENTAL
P.SIGNAL TOLQUE DIRECTION SW
DIRECTION LOGIC
RIPPLE CANCEL
TOLQUE C
HALL ELEMENT POWER SOURSE
1ST AMP
Q2001 2SB641 (AMP)
SLOW FREE RUN
TP2026
TPGND1
TP2020
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

Back Page:
SYSTEM CONTROL Section

3-13. SERVO PACK C.B.A. (VEP02280C)


PG SIFTER
VR2001 50KB
C2018 0.1
BP2001
REG 5.1V
P-FG
CYL ET
GND
MOTOR REG 10V
P2901
C2910 16V10
C2905 50V0.22
C2901 35V2.2
C2904 50V0.22
C2906 50V0.22
C2907 50V0.33
ATC
M3
VM
PG/FG
P3
P2
P1
VCC
FC
INTER FACE
PRESET
OSC
CHARGE/DISCHARGE CIRCUIT
BEMF DET
START MISS. DET
PG/FG DISP.
MODE SELECT
1/16
STOP DET
POWER (NPN X3)
MULTIPLICATION
EXTERNAL SYNC
TOLQUE CTL
STOP
WAVE SHAPER
IC2901 AN3812K
C2902 35V2.2
C2908 0.047
R2901 0.58
C2903 35V2.2
C2909 0.1
C2911 16V10
(TO CYL MOTOR)
CYLINDER DRIVE C.B.A. (VEP00H22A)
C2021 0.01
QR2006 DTC144EA (LP Ⓗ:ON)
D2009 MA165
QR2003 DTA124EA (LP Ⓗ:ON)
QR2004 DTA124EA (LP Ⓗ:OFF)
SLOW TRACK FIX LP
D2004 MA165
R2013 2200
VR2006 100KB
R2011 1000
D2003 MA165
R2014 2200
VR2011 100KB
SLOW TRACK FIX SP
R2012 10K
TO SYSTEM CTL
MOTOR REG 10V
MOTOR GND
LP Ⓗ
TO AUDIO
SP Ⓛ/ LP Ⓗ OUT
TO LUMINANCE & CHROMINANCE
LP Ⓗ
R2010 22K
QR2002 DTC124EA
R2036 10K
(X7 Ⓗ:ON)
C2016 25V 47
C2019 0.1
Q2002 2SD636 (MIX)
R2032 120K
R2030 33K
R2033 68K
TP2099
R2029 68K
R2031 47K
Q2001 2SB641 (AMP)
R2034 390
D2007 MA165
TO SYSTEM CTL
SLOW TRACK VR
X7
CUR EMPH
STOP/FF/REW
DUTY CHANGE
SP Ⓛ/ LP Ⓗ OUT
D2008 MA165
R2039 47K
R2009 4700
VR2013 2KB
R2008 6800
SLOW FREE RUN
P2002 (TO CAPSTAN MOTOR)
M3
VH+
H1+
H2+
H1−
H2−
H3+
VH−
H3−
M1
FG2
M2
FG1
FG GND
REG 12.3V
R2018 33
TP2026
TPGND1
SHIFTER
ET
RR. LIMIT
T-VMM
WAVEFORM OF SUB SERVO (1) PACK PIN
1
2.0Vp-p, 4.43MHz (REC/P.B)
WAVEFORM OF SERVO PACK PINS
2
5Vp-p, 25Hz (REC)
5,6
0.1Vp-p, 756Hz (REC/P.B)
7
1Vp-p, 756Hz (REC/P.B)
13
5.1Vp-p, 50Hz (STILL)
15
5.1Vp-p, 25Hz (REC/P.B)
15
5Vp-p, 25Hz (STILL)
16
5Vp-p, 25Hz (STILL)
17
5Vp-p, 25Hz (STILL)
19
1.5Vp-p (REC/P.B)
20
4.8Vp-p, 25Hz (REC)
20
4.8Vp-p, 25Hz (P.B)
21
2.4Vp-p, 50Hz (REC/P.B)
24
0.6Vp-p, 4.43MHz (REC/P.B)
25
1Vp-p, 50Hz (REC/P.B)
26
2.5Vp-p, 25Hz (REC/P.B)
28
5Vp-p 100Hz (REC/P.B)
30
5.1Vp-p, 25Hz (REC/P.B)
12
13
14
15
16

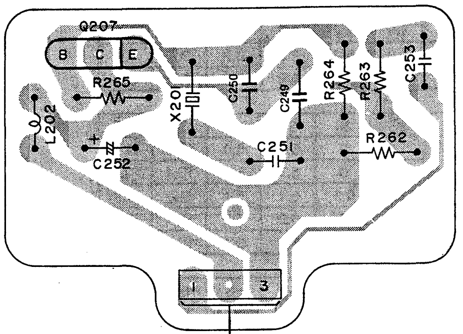
HE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE

OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

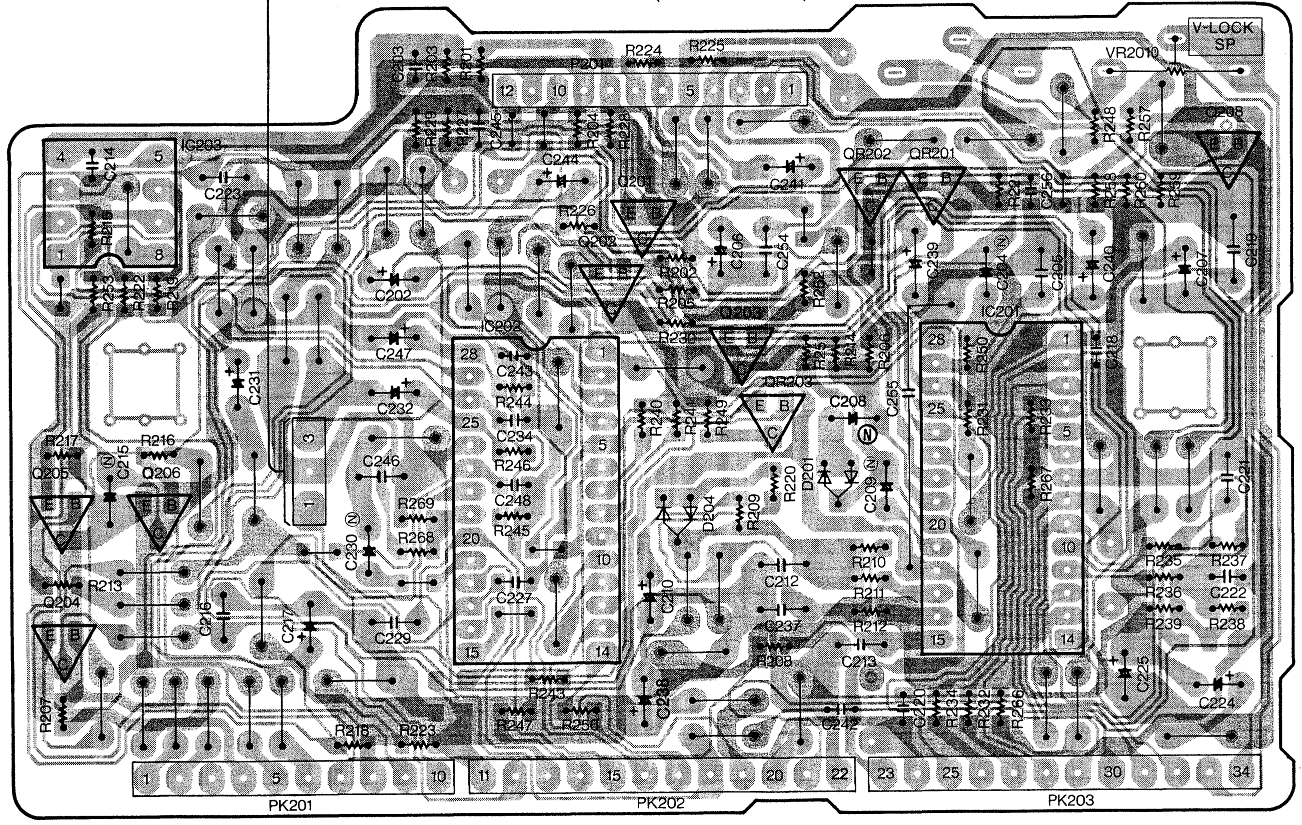
SERVO SCHEMATIC	
Transistor	
Q201	G-6
Q202	G-5
Q203	G-8
Q204	G-10
Q205	G-11
Q206	G-11
Q207	B-5
Q208	F-5
Q2001	C-13
Q2002	D-14
Transistor & Resistor	
QR201	G-7
QR202	G-7
QR203	B-7
QR2002	D-15
QR2003	F-13
QR2004	F-14
QR2006	F-13
QR2007	A-2
Integrated Circuit	
IC201	G-7
IC202	B-7
IC203	F-10
IC2001	B-9
IC2901	E-16
Test Point	
TP2001	D-2
TP2002	E-2
TP2009	E-2
TP2015	D-3
TP2020	B-9
TP2025	A-3
TP2026	B-12
TP2098	D-2
TP2099	D-15
TP GND 1	B-12
Adjustment	
VR2001	G-13
VR2002	B-3
VR2006	E-14
VR2010	C-9
VR2011	E-14
VR2013	C-12
Connector	
P201	G-3
P2001	G-14
P2002	C-16
P2901	G-15

ADDRESS INFORMATION

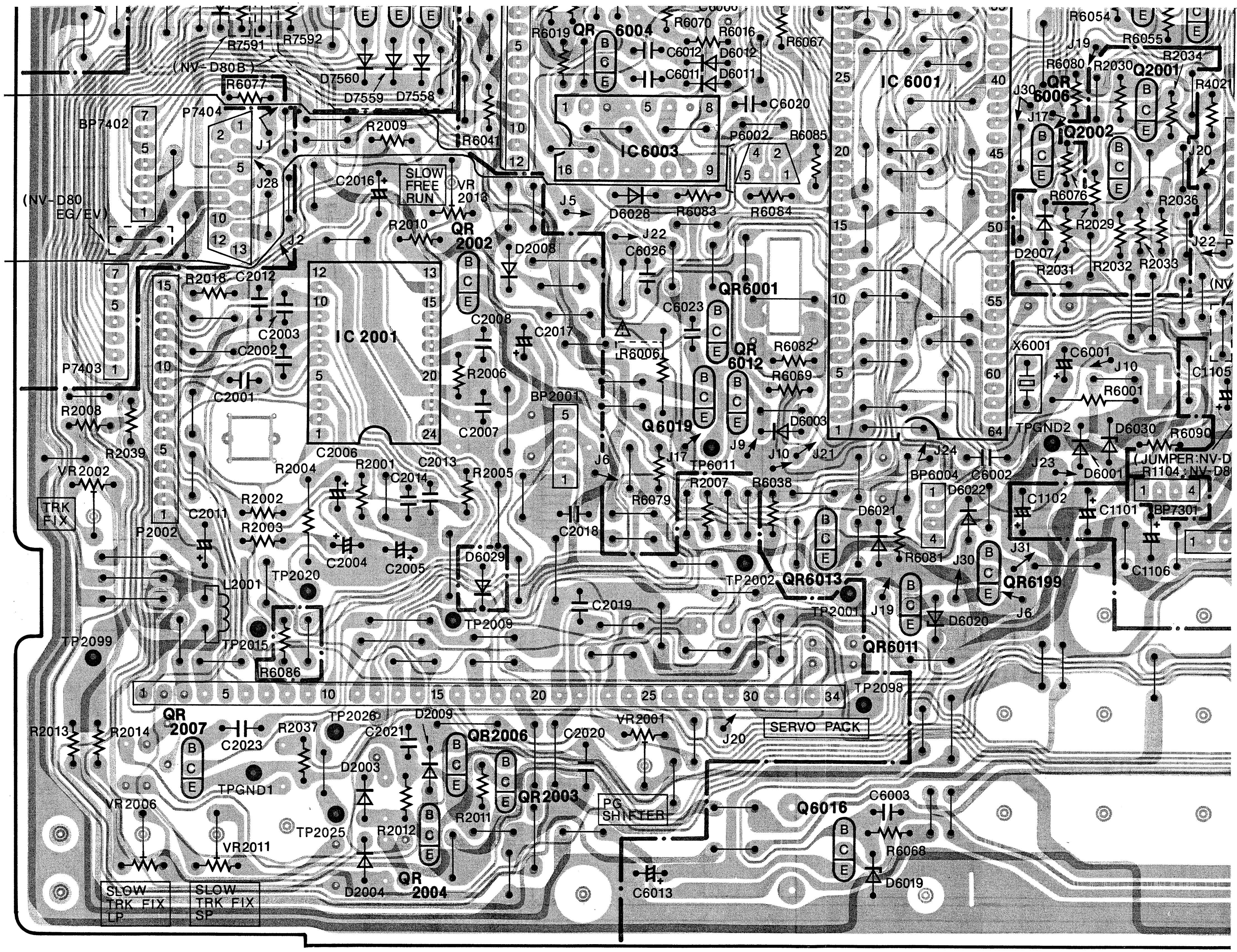
SUB SERVO PACK C.B.A. (VEP02281A)


Q207
B
C
E
R265
X201
C250
C249
R264
R263
C253
L202
C252
C251
R262
1
3

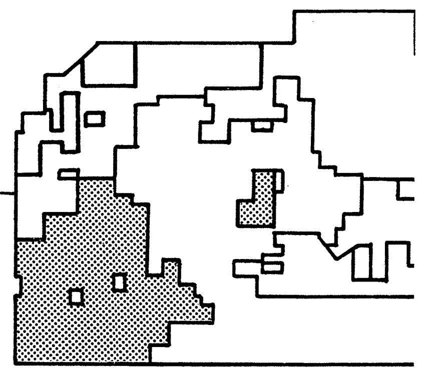
SERVO PACK C.B.A. (VEP02280C)


V-LOCK SP
R224
R225
P201
VR2010
IC203
C244
C223
Q201
C241
QR202
QR201
R226
Q202
C206
C254
C202
IC202
R202
Q203
R230
C247
C243
R244
C234
R246
C232
C246
R269
R268
C248
R245
C227
C229
C230
C231
C216
C217
C210
R220
D201
D204
R209
C209
R210
R211
R212
C212
C237
R208
C213
C242
C220
C208
QR203
C255
IC201
C240
C207
C219
C236
C218
R217
R216
Q205
C215
Q206
R213
Q204
R207
R218
R223
R247
R250
C238
C225
C224
R235
R237
R236
C222
R239
R238
C221
R267
R248
R257
C205
V-LOCK
PK201
PK202
PK203
1
5
10
11
15
20
22
23
25
30
34
28
14

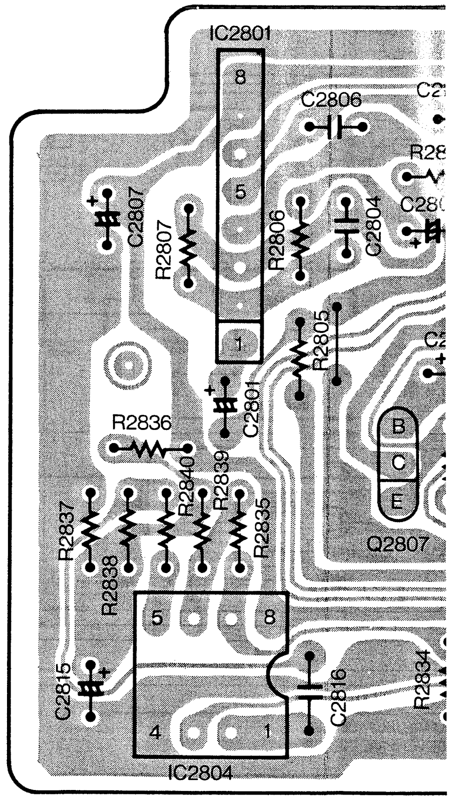
3-14. SERVO Section In Main C.B.A. (VEP03410A: NV-D80EG) (VEP03410C: NV-D80B) (VEP03410B: NV-D80EV)



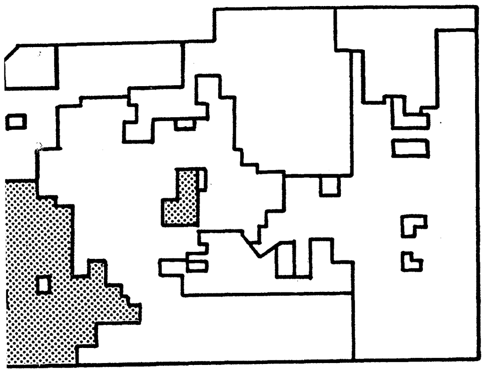
R7591
R7592
(NV-D80B)
R6077
D7560
D7559
D7558
BP7402
P7404
J1
J28
R2009
R6041
(NV-D80 EG/EV)
J2
C2016
SLOW FREE RUN
VR 2018
R2010
QR 2002
D2008
J5
R6019
QR 6004
R6070
R6016
R6067
C6012
D6012
C6011
D6011
C6020
IC6003
P6002
R6085
D6028
R6083
R6084
J22
C6026
IC 6001
R6054
R6055
R2034
J19
R6080
R2030
Q2001
R4021
J30
QR 6006
J17
Q2002
J20
R6076
R2036
R2029
D2007
R2031
R2032
R2033
R2018
C2012
C2003
C2002
C2001
P7403
R2008
R2039
VR2002
TRK FIX
P2002
IC 2001
C2008
C2017
R2006
C2007
C2006
R2004
R2001
C2013
C2014
R2005
R2002
R2003
C2011
C2004
C2005
D6029
L2001
TP2020
TP2015
R6086
TP2009
TP2099
QR6001
C6023
R6006
QR 6012
R6082
R6069
Q6019
D6003
BP2001
J6
J17
TP6011
J9
J10
J21
R6079
R2007
R6038
C2018
C2019
TP2002
QR6013
TP2001
J19
QR6011
D6020
D6021
R6081
J24
BP6004
C6002
D6022
J23
D6001
C1102
C1101
BP7301
J31
QR6199
J6
X6001
C6001
J10
R6001
C1105
TPGND2
D6030
R6090
(JUMPER:NV-D
R1104: NV-D8
C1106
TP2098
SERVO PACK
QR 2007
R2013
R2014
C2023
R2037
TP2026
D2009
C2021
QR2006
C2020
VR2001
J20
D2003
TPGND1
QR2003
PG SHIFTER
R2011
R2012
TP2025
VR2006
VR2011
QR 2004
D2004
Q6016
C6003
R6068
D6019
C6013
SLOW TRK FIX LP
SLOW TRK FIX SP



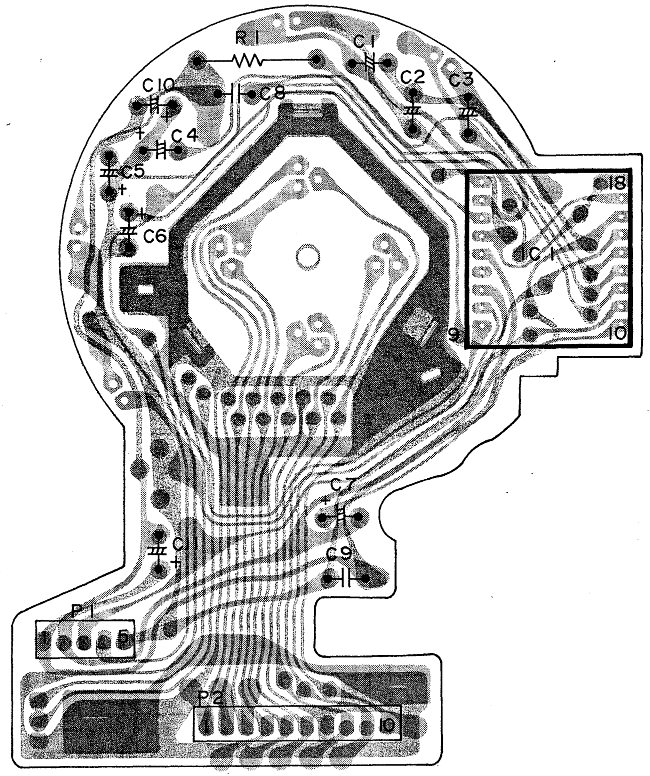
3-16. INDEX SEARCH F



IC2801
C2806
C2807
R2807
R2806
C2804
R2805
C2801
R2836
R2837
R2838
R2840
R2839
R2835
Q2807
C2815
C2816
R2834
IC2804

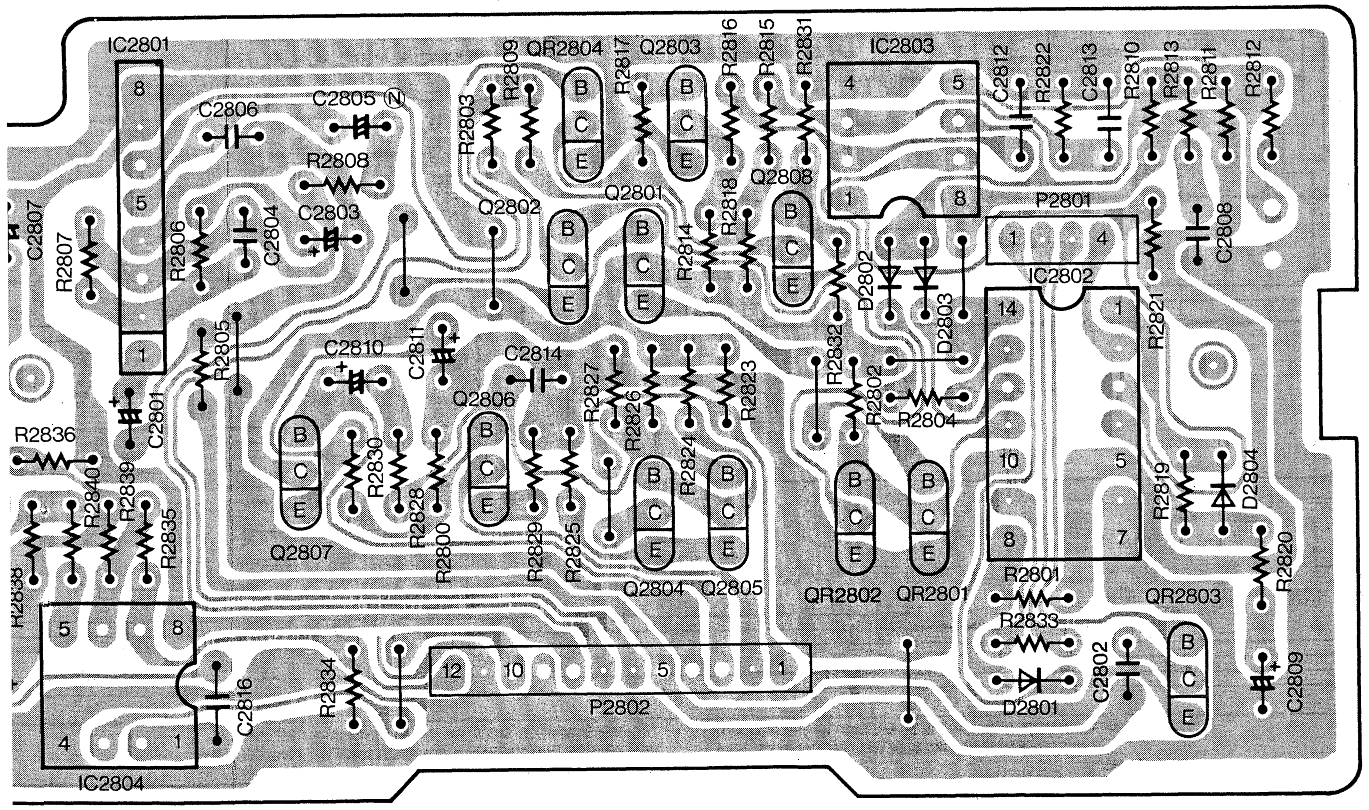


3-15. CYLINDER DRIVE C.B.A.
(VEP00H22A)

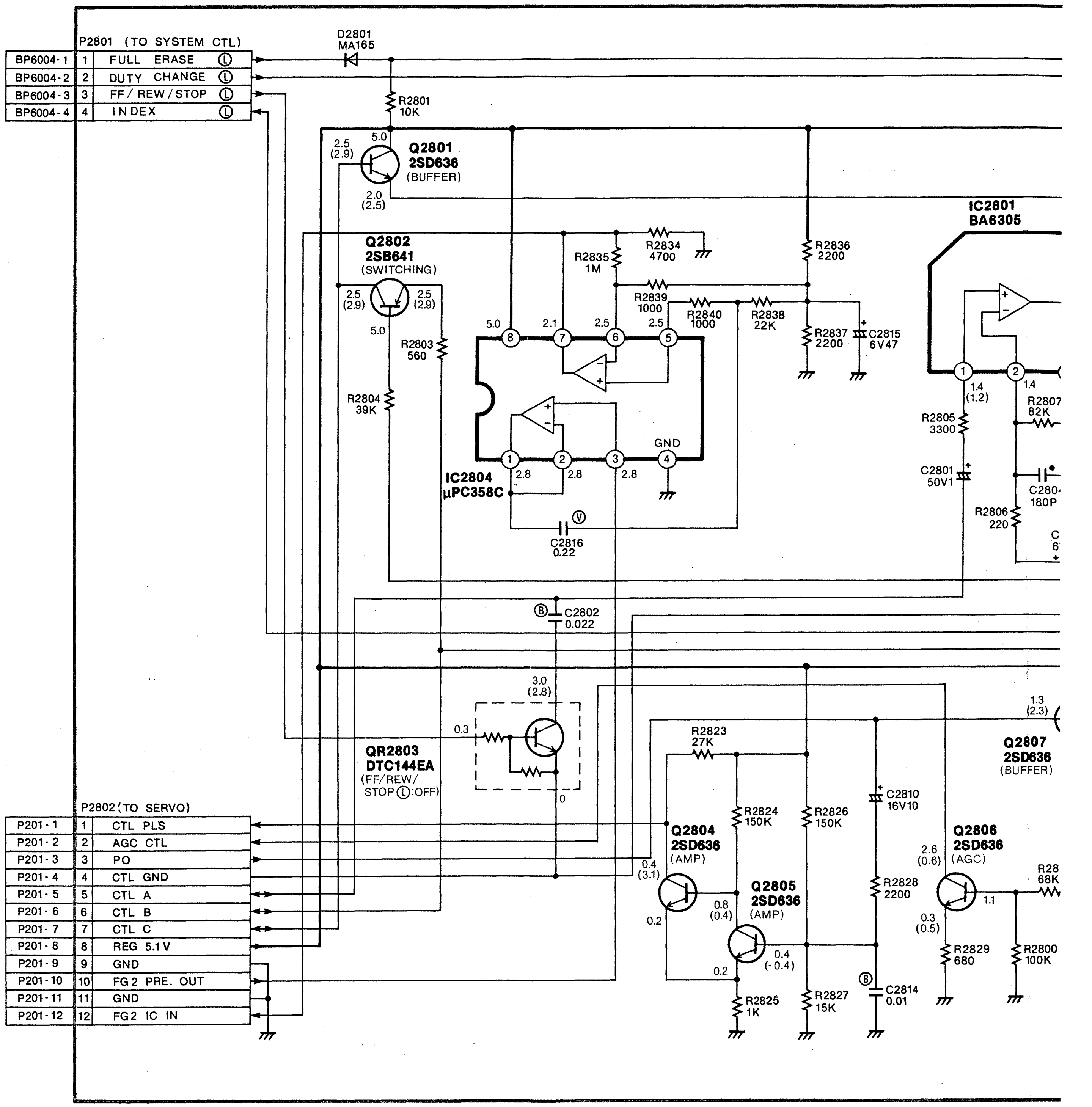

R1
C1
C2
C3
C10
C8
C4
C5
C6
IC1
18
9
10
C7
C1
C9
P1
P2
1
10

REF. NO. 2900 SERIES

INDEX SEARCH PACK C.B.A. (VEP02279A)

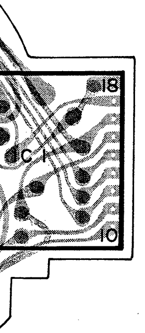

IC2801
C2806
C2805
R2808
C2803
C2804
R2806
R2807
C2807
R2805
C2801
R2836
R2840
R2839
R2835
Q2807
C2810
C2811
C2814
Q2806
R2830
R2828
R2800
R2829
R2825
R2827
R2826
R2824
R2823
Q2804
Q2805
R2803
R2809
QR2804
R2817
Q2803
R2816
R2815
R2831
Q2802
Q2801
R2814
R2818
Q2808
R2832
R2802
D2802
D2803
R2804
QR2802
QR2801
IC2803
C2812
R2822
C2813
R2810
R2813
R2811
R2812
P2801
C2808
IC2802
R2821
R2819
D2804
R2820
R2801
R2833
D2801
C2802
QR2803
C2809
IC2804
C2816
R2834
P2802
B
C
E

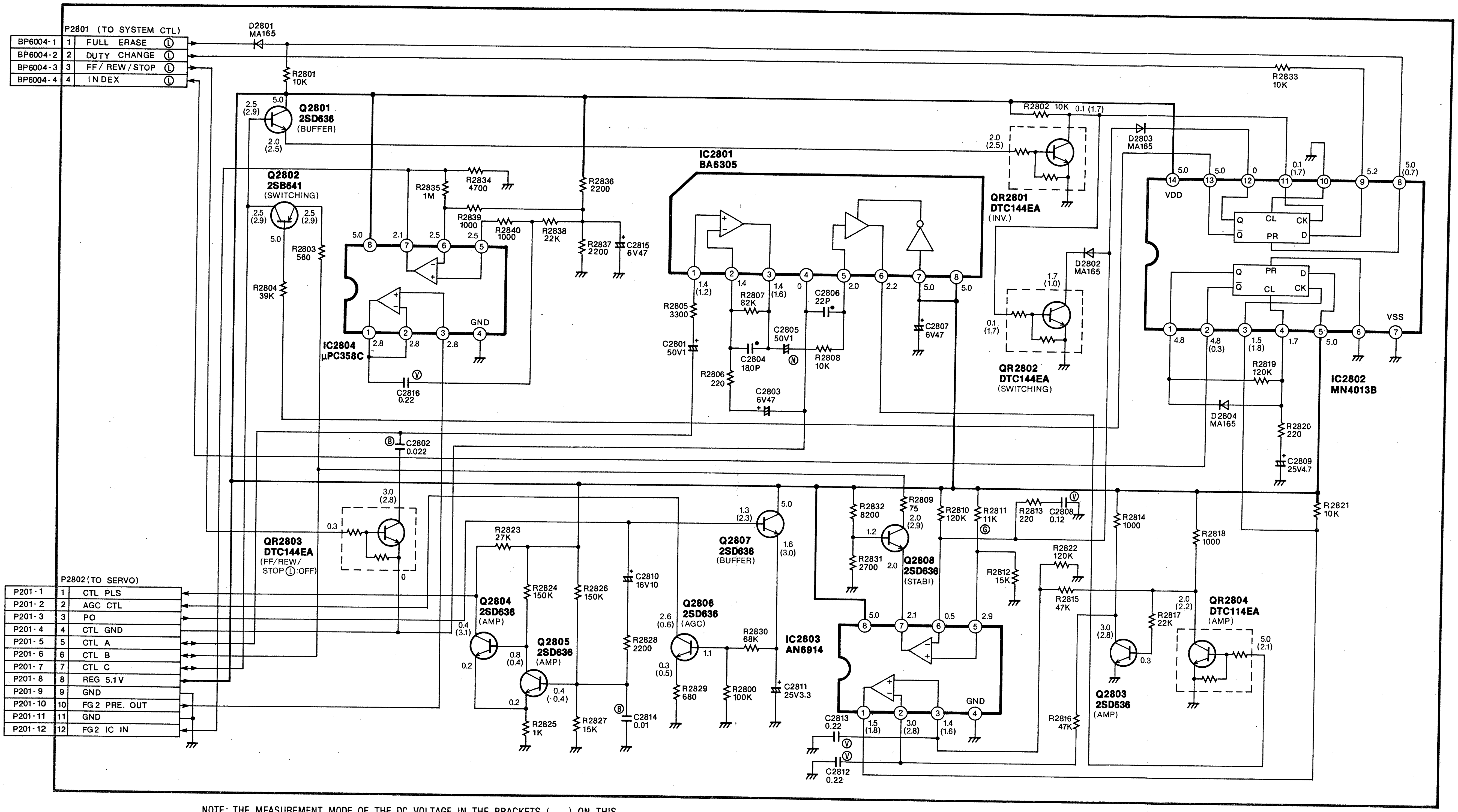
3-17. INDEX SEARCH PACK SCHEMATIC DIAGRAM


P2801 (TO SYSTEM CTL)
BP6004-1 1 FULL ERASE Ⓛ
BP6004-2 2 DUTY CHANGE Ⓛ
BP6004-3 3 FF/REW/STOP Ⓛ
BP6004-4 4 INDEX Ⓛ
D2801
MA165
R2801
10K
Q2801
2SD636
(BUFFER)
Q2802
2SB641
(SWITCHING)
R2803
560
R2804
39K
R2835
1M
R2834
4700
R2839
1000
R2840
1000
R2838
22K
R2836
2200
R2837
2200
C2815
6V47
IC2804
μPC358C
GND
C2816
0.22
IC2801
BA6305
R2805
3300
C2801
50V1
R2807
82K
R2806
220
180P
C2802
0.022
QR2803
DTC144EA
(FF/REW/STOP Ⓛ:OFF)
R2823
27K
R2824
150K
R2826
150K
C2810
16V10
Q2804
2SD636
(AMP)
Q2805
2SD636
(AMP)
R2825
1K
R2827
15K
C2814
0.01
R2828
2200
Q2806
2SD636
(AGC)
R2829
680
R2800
100K
68K
Q2807
2SD636
(BUFFER)
P2802 (TO SERVO)
P201-1 1 CTL PLS
P201-2 2 AGC CTL
P201-3 3 PO
P201-4 4 CTL GND
P201-5 5 CTL A
P201-6 6 CTL B
P201-7 7 CTL C
P201-8 8 REG 5.1V
P201-9 9 GND
P201-10 10 FG2 PRE. OUT
P201-11 11 GND
P201-12 12 FG2 IC IN
2.5 (2.9)
5.0
2.0 (2.5)
2.1
2.8
1.4 (1.2)
3.0 (2.8)
0.3
0
0.4 (3.1)
0.2
0.8 (0.4)
0.4 (-0.4)
2.6 (0.6)
0.3 (0.5)
1.1
1.3 (2.3)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

3-17. INDEX SEARCH PACK SCHEMATIC DIAGRAM



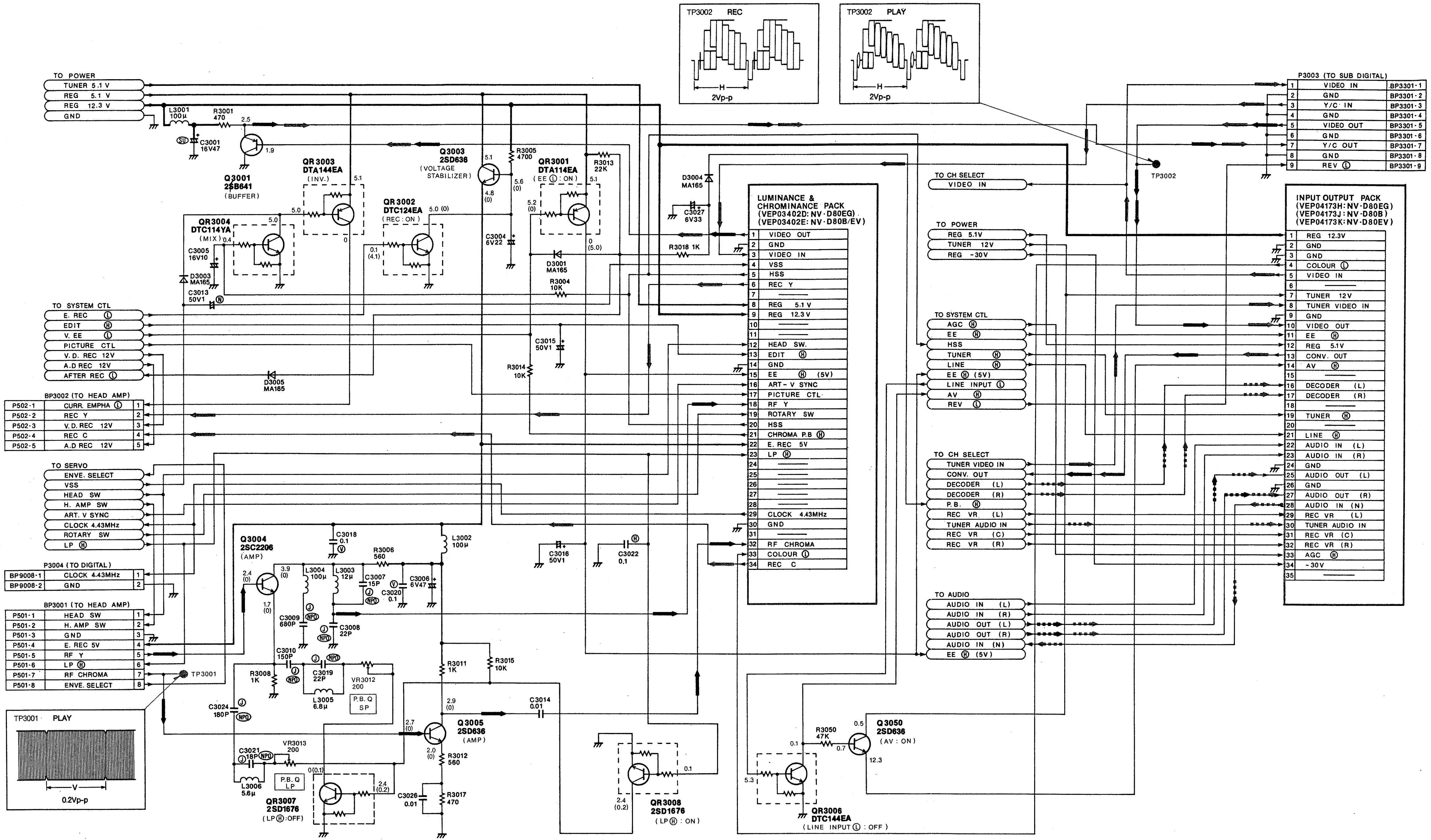

P2801 (TO SYSTEM CTL)
BP6004-1 1 FULL ERASE Ⓛ
BP6004-2 2 DUTY CHANGE Ⓛ
BP6004-3 3 FF/REW/STOP Ⓛ
BP6004-4 4 INDEX Ⓛ
D2801 MA165
R2801 10K
Q2801 2SD636 (BUFFER)
Q2802 2SB641 (SWITCHING)
R2803 560
R2804 39K
R2834 4700
R2835 1M
R2839 1000
R2840 1000
R2838 22K
R2836 2200
R2837 2200
C2815 6V47
IC2804 μPC358C
GND
C2816 0.22
C2802 0.022
QR2803 DTC144EA (FF/REW/STOP Ⓛ:OFF)
IC2801 BA6305
R2805 3300
C2801 50V1
R2807 82K
C2806 22P
C2804 180P
C2805 50V1
R2808 10K
R2806 220
C2803 6V47
C2807 6V47
R2802 10K
QR2801 DTC144EA (INV.)
D2803 MA165
D2802 MA165
QR2802 DTC144EA (SWITCHING)
R2833 10K
IC2802 MN4013B
VDD
VSS
CL
CK
PR
D
Q
Q̄
R2819 120K
D2804 MA165
R2820 220
C2809 25V4.7
R2821 10K
P2802 (TO SERVO)
P201-1 1 CTL PLS
P201-2 2 AGC CTL
P201-3 3 PO
P201-4 4 CTL GND
P201-5 5 CTL A
P201-6 6 CTL B
P201-7 7 CTL C
P201-8 8 REG 5.1V
P201-9 9 GND
P201-10 10 FG2 PRE. OUT
P201-11 11 GND
P201-12 12 FG2 IC IN
R2823 27K
R2824 150K
R2826 150K
Q2804 2SD636 (AMP)
Q2805 2SD636 (AMP)
R2825 1K
R2827 15K
C2810 16V10
R2828 2200
C2814 0.01
Q2807 2SD636 (BUFFER)
Q2806 2SD636 (AGC)
R2830 68K
R2829 680
R2800 100K
C2811 25V3.3
IC2803 AN6914
R2832 8200
R2831 2700
R2809 75
Q2808 2SD636 (STABI)
R2810 120K
R2811 11K
R2813 220
C2808 0.12
R2812 15K
R2822 120K
R2815 47K
R2814 1000
R2818 1000
R2817 22K
R2816 47K
Q2803 2SD636 (AMP)
QR2804 DTC114EA (AMP)
C2813 0.22
C2812 0.22

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Next Page:
LUMINANCE & CHROMINANCE Section

3-18. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM



TP3002 REC
2Vp-p
TP3002 PLAY
2Vp-p
TO POWER
TUNER 5.1 V
REG 5.1 V
REG 12.3 V
GND
L3001 100μ
R3001 470
C3001 16V47
Q3001 2SB641 (BUFFER)
QR3003 DTA144EA (INV.)
QR3004 DTC114YA (MIX)
QR3002 DTC124EA (REC : ON)
Q3003 2SD636 (VOLTAGE STABILIZER)
R3005 4700
QR3001 DTA114EA (EE Ⓛ : ON)
R3013 22K
C3004 6V22
D3001 MA165
R3004 10K
D3004 MA165
C3027 6V33
R3018 1K
C3005 16V10
D3003 MA165
C3013 50V1
TO SYSTEM CTL
E. REC Ⓛ
EDIT Ⓗ
V. EE Ⓛ
PICTURE CTL
V.D. REC 12V
A.D REC 12V
AFTER REC Ⓛ
D3005 MA165
C3015 50V1
R3014 10K
BP3002 (TO HEAD AMP)
P502-1 CURR. EMPHA Ⓛ
P502-2 REC Y
P502-3 V.D. REC 12V
P502-4 REC C
P502-5 A.D REC 12V
TO SERVO
ENVE. SELECT
VSS
HEAD SW
H. AMP SW
ART. V SYNC
CLOCK 4.43MHz
ROTARY SW
LP Ⓗ
P3004 (TO DIGITAL)
BP9008-1 CLOCK 4.43MHz
BP9008-2 GND
BP3001 (TO HEAD AMP)
P501-1 HEAD SW
P501-2 H. AMP SW
P501-3 GND
P501-4 E. REC 5V
P501-5 RF Y
P501-6 LP Ⓗ
P501-7 RF CHROMA
P501-8 ENVE. SELECT
TP3001
TP3001 PLAY
0.2Vp-p
Q3004 2SC2206 (AMP)
C3018 0.1
L3002 100μ
R3006 560
L3004 100μ
L3003 12μ
C3007 15P
C3020 0.1
C3006 6V47
C3009 680P
C3008 22P
C3010 150P
C3019 22P
VR3012 200
R3008 1K
L3005 6.8μ
P.B. Q SP
C3024 180P
C3021 18P
VR3013 200
L3006 5.6μ
P.B. Q LP
QR3007 2SD1676 (LP Ⓗ : OFF)
R3011 1K
R3015 10K
C3014 0.01
Q3005 2SD636 (AMP)
R3012 560
C3026 0.01
R3017 470
C3016 50V1
C3022 0.1
QR3008 2SD1676 (LP Ⓗ : ON)
R3050 47K
Q3050 2SD636 (AV : ON)
QR3006 DTC144EA (LINE INPUT Ⓛ : OFF)
LUMINANCE & CHROMINANCE PACK (VEP03402D: NV-D80EG) (VEP03402E: NV-D80B/EV)
1 VIDEO OUT
2 GND
3 VIDEO IN
4 VSS
5 HSS
6 REC Y
8 REG 5.1 V
9 REG 12.3 V
12 HEAD SW.
13 EDIT Ⓗ
14 GND
15 EE Ⓗ (5V)
16 ART - V SYNC
17 PICTURE CTL
18 RF Y
19 ROTARY SW
20 HSS
21 CHROMA P.B Ⓗ
22 E. REC 5V
23 LP Ⓗ
29 CLOCK 4.43MHz
30 GND
32 RF CHROMA
33 COLOUR Ⓛ
34 REC C
TO CH SELECT
VIDEO IN
TO POWER
REG 5.1V
TUNER 12V
REG -30V
TO SYSTEM CTL
AGC Ⓗ
EE Ⓗ
HSS
TUNER Ⓗ
LINE Ⓗ
EE Ⓗ (5V)
LINE INPUT Ⓛ
AV Ⓗ
REV Ⓛ
TO CH SELECT
TUNER VIDEO IN
CONV. OUT
DECODER (L)
DECODER (R)
P.B. Ⓗ
REC VR (L)
TUNER AUDIO IN
REC VR (C)
REC VR (R)
TO AUDIO
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
AUDIO IN (N)
EE Ⓗ (5V)
P3003 (TO SUB DIGITAL)
1 VIDEO IN BP3301-1
2 GND BP3301-2
3 Y/C IN BP3301-3
4 GND BP3301-4
5 VIDEO OUT BP3301-5
6 GND BP3301-6
7 Y/C OUT BP3301-7
8 GND BP3301-8
9 REV Ⓛ BP3301-9
TP3002
INPUT OUTPUT PACK (VEP04173H: NV-D80EG) (VEP04173J: NV-D80B) (VEP04173K: NV-D80EV)
1 REG 12.3V
2 GND
3 GND
4 COLOUR Ⓛ
5 VIDEO IN
7 TUNER 12V
8 TUNER VIDEO IN
9 GND
10 VIDEO OUT
11 EE Ⓗ
12 REG 5.1V
13 CONV. OUT
14 AV Ⓗ
16 DECODER (L)
17 DECODER (R)
19 TUNER Ⓗ
21 LINE Ⓗ
22 AUDIO IN (L)
23 AUDIO IN (R)
24 GND
25 AUDIO OUT (L)
26 GND
27 AUDIO OUT (R)
28 AUDIO IN (N)
29 REC VR (L)
30 TUNER AUDIO IN
31 REC VR (C)
32 REC VR (R)
33 AGC Ⓗ
34 -30V

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

◀ VIDEO MAIN SIGNAL PATH IN REC MODE

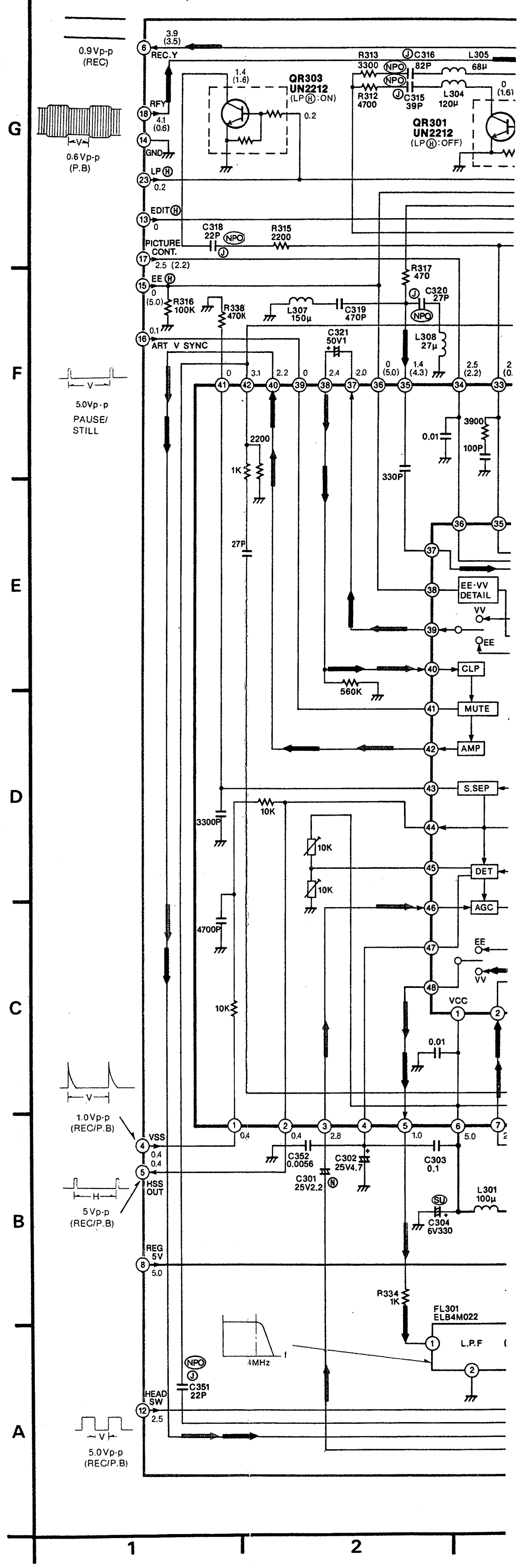
◀ ■ ■ ■ AUDIO MAIN SIGNAL PATH IN REC MODE

◀ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

◀ ■ ■ ■ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

3-19. LUMINANCE & CHROMI

◀ MAIN SIGNAL PAT



G
F
E
D
C
B
A
1
2
0.9Vp-p (REC)
0.6Vp-p (P.B)
REC.Y
RFY
GND
LP
EDIT
PICTURE CONT.
EE
ART V SYNC
QR303 UN2212 (LP Ⓗ : ON)
QR301 UN2212 (LP Ⓗ : OFF)
R313 3300
C316 82P
L305 68μ
R312 4700
C315 39P
L304 120μ
C318 22P
R315 2200
R317 470
R316 100K
R338 470K
L307 150μ
C319 470P
C320 27P
C321 50V1
L308 27μ
5.0Vp-p PAUSE/STILL
EE-VV DETAIL
CLP
MUTE
AMP
S.SEP
DET
AGC
VCC
1.0Vp-p (REC/P.B)
VSS
HSS OUT
5Vp-p (REC/P.B)
REG 5V
C352 0.0056
C302 25V4.7
C301 25V2.2
C303 0.1
L301 100μ
C304 6V330
R334 1K
FL301 ELB4M022
L.P.F
4MHz
C351 22P
HEAD SW
5.0Vp-p (REC/P.B)

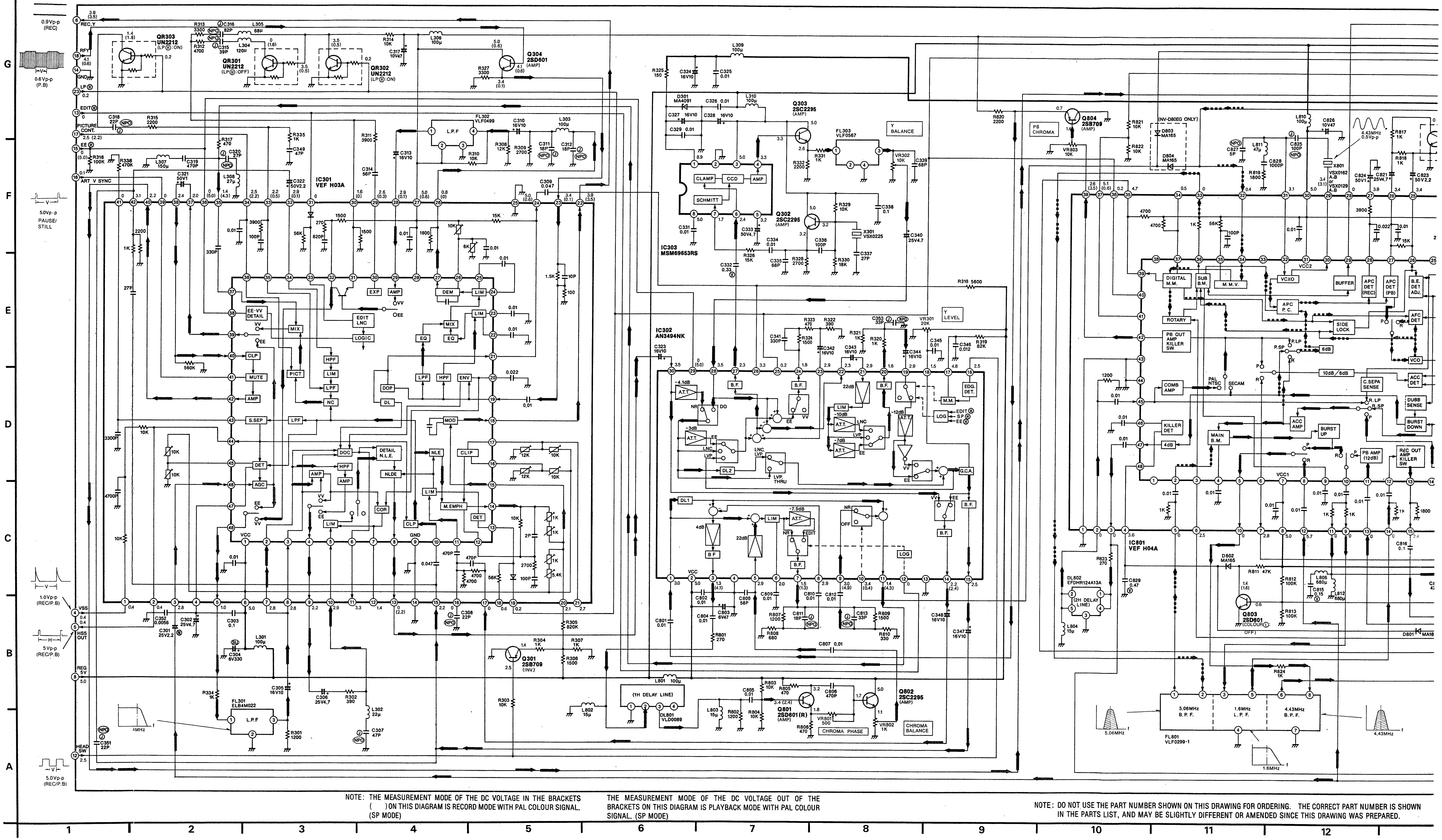
3-19. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE

5.06MHz PHASE ROTATI

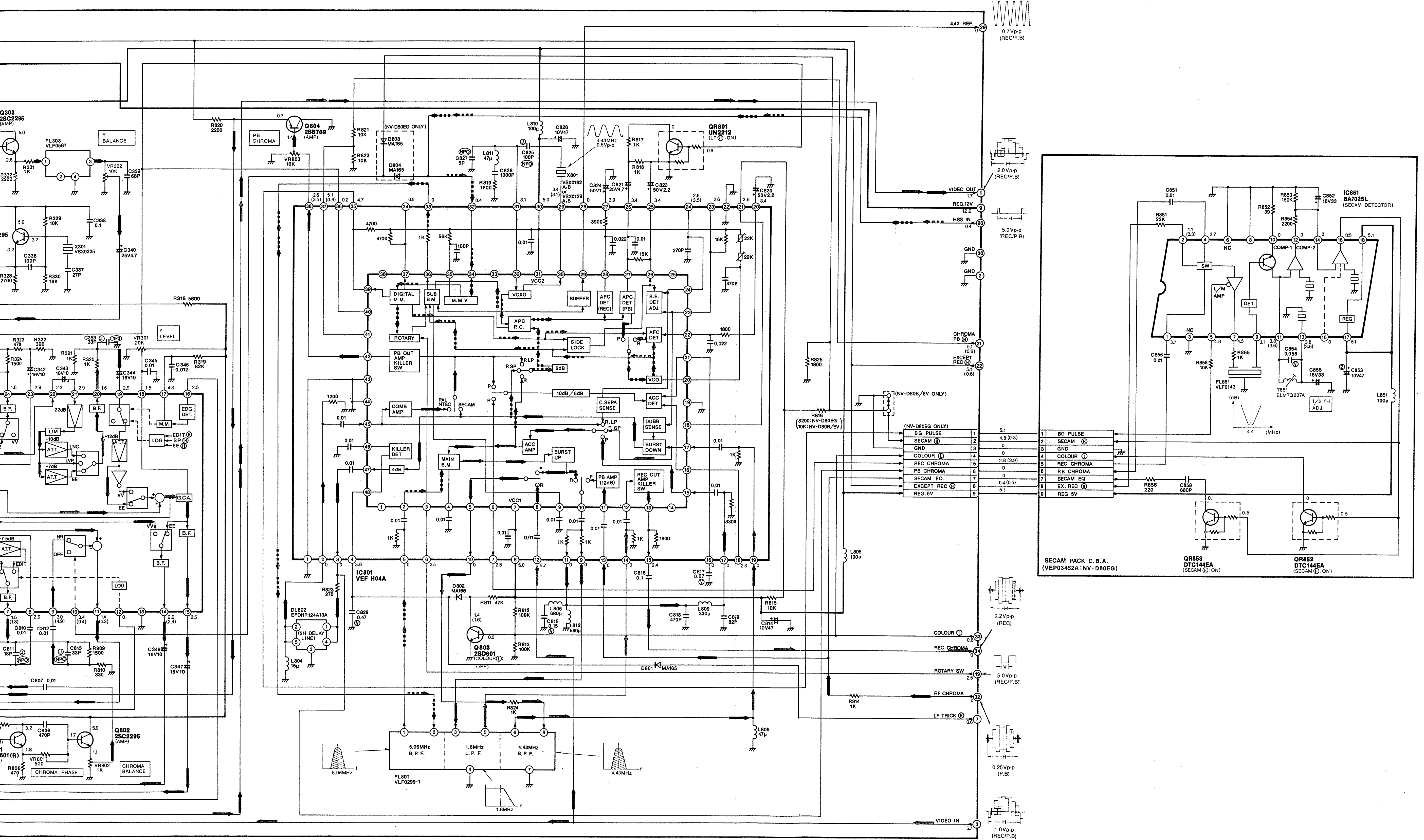

REC.Y
RFY
GND
LP Ⓗ
EDIT Ⓡ
PICTURE CONT.
EE Ⓗ
ART V SYNC
VSS
HSS OUT
REG 5V
HEAD SW
0.9Vp-p (REC)
0.6Vp-p (P.B)
5.0Vp-p PAUSE/STILL
1.0Vp-p (REC/P.B)
5Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
QR303 UN2212 (LPⒽ:ON)
QR301 UN2212 (LPⒽ:OFF)
QR302 UN2212 (LPⒽ:ON)
Q304 2SD601 (AMP)
IC301 VEF H03A
FL302 VLF0499
L.P.F
IC303 MSM69653RS
CLAMP
CCD
AMP
SCHMITT
Q303 2SC2295 (AMP)
Q302 2SC2295 (AMP)
FL303 VLF0567
Y BALANCE
X301 VSX0225
IC302 AN3494NK
Y LEVEL
EE-VV DETAIL
MIX
EDIT LNC
LOGIC
EXP
DEM
LIM
EQ
HPF
LPF
PICT
NC
DOP
DL
ENV
MOD
MUTE
S.SEP
DOC
DETAIL N.L.E.
NLE
CLIP
DET
AGC
COR
M.EMPH
VCC
GND
Q301 2SB709 (INV.)
FL301 ELB4M022
4MHz
(1H DELAY LINE)
DL801 VLD0089
Q801 2SD601(R) (AMP)
Q802 2SC2295 (AMP)
CHROMA PHASE
CHROMA BALANCE
A.T.T.
B.F.
LIM
LNC
LVP
DL2
LVP THRU
G.C.A.
LOG
EDG. DET.
M.M.
PB CHROMA
Q804 2SB709 (AMP)
(NV-D80EG ONLY)
D803 MA165
D804 MA165
X801 VSX0162 A-B or VSX0129 A-B
4.43MHz 0.5Vp-p
IC801 VEF H04A
DIGITAL M.M.
SUB B.M.
M.M.V.
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E. DET ADJ.
APC P.C.
ROTARY
PB OUT AMP KILLER SW
SIDE LOCK
AFC DET
VCO
COMB AMP
PAL NTSC
SECAM
10dB/6dB
C.SEPA SENSE
ACC DET
DUBB SENSE
KILLER DET
ACC AMP
BURST UP
BURST DOWN
MAIN B.M.
PB AMP (12dB)
REC OUT AMP KILLER SW
DL802 EFDHR124A13A
(2H DELAY LINE)
D802 MA165
Q803 2SD601 (COLOUR Ⓛ OFF)
D801 MA16
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
FL801 VLF0299-1
5.06MHz
4.43MHz
1.6MHz
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

■ ■ ■ 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE ◀■ ■ ■ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE


IC801 VEF H04A
Q804 2SB709 (AMP)
QR801 UN2212 (LP Ⓡ:ON)
Q303 2SC2295 (AMP)
Q802 2SC2295 (AMP)
Q803 2SD601 (COLOUR Ⓛ: OFF)
FL801 VLF0299-1
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
DL802 EFDHR124A13A (2H DELAY LINE)
X801 VSX0162 or VSX0129
DIGITAL M.M.
SUB B.M.
M.M.V.
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E. DET ADJ.
APC P.C.
SIDE LOCK
AFC DET
VCO
ROTARY
PB OUT AMP KILLER SW
COMB AMP
KILLER DET
MAIN B.M.
BURST UP
ACC AMP
ACC DET
C.SEPA SENSE
DUBB SENSE
BURST DOWN
PB AMP (12dB)
REC OUT AMP KILLER SW
PB CHROMA
Y BALANCE
Y LEVEL
CHROMA PHASE
CHROMA BALANCE
G.C.A.
4.43 REF.
VIDEO OUT
REG.12V
HSS IN
GND
CHROMA PB Ⓡ
EXCEPT REC Ⓡ
COLOUR Ⓛ
REC CHROMA
ROTARY SW
RF CHROMA
LP TRICK Ⓡ
VIDEO IN
0.7Vp-p (REC/P.B)
2.0Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
0.2Vp-p (REC)
5.0Vp-p (REC/P.B)
0.25Vp-p (P.B)
1.0Vp-p (REC/P.B)
(NV-D80EG ONLY)
(NV-D80B/EV ONLY)
R816 (8200:NV-D80EG 10K:NV-D80B/EV)
BG PULSE
SECAM Ⓑ
GND
COLOUR Ⓛ
REC CHROMA
PB CHROMA
SECAM EQ.
EXCEPT REC Ⓡ
REG.5V
IC851 BA7025L (SECAM DETECTOR)
COMP-1
COMP-2
L/M AMP
DET
REG
SW
FL851 VLF0143
T851 ELM7Q207A
1/2 fH ADJ.
SECAM PACK C.B.A. (VEP03452A:NV-D80EG)
QR853 DTC144EA (SECAM Ⓑ:ON)
QR852 DTC144EA (SECAM Ⓗ:ON)
5.06MHz
4.43MHz
1.6MHz
8
9
10
11
12
13
14
15
16
17
18
19

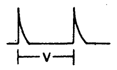
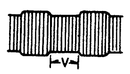
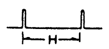
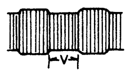
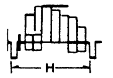
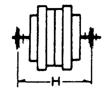
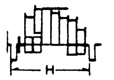
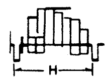
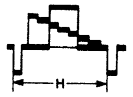
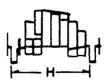
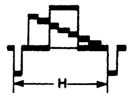
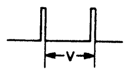
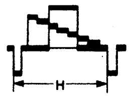
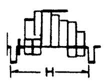
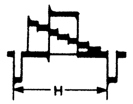
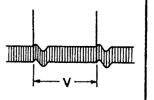
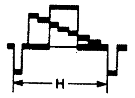
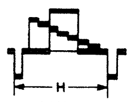
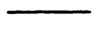
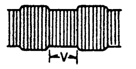
OF THE
L COLOUR

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

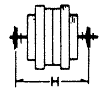
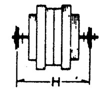
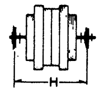
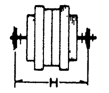
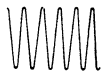
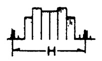
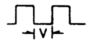
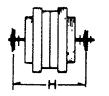
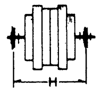
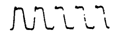
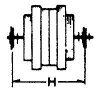
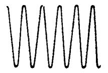
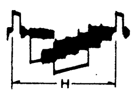
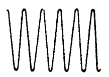
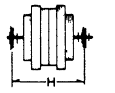
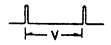
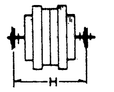
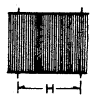
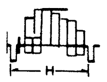
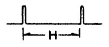
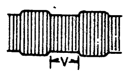
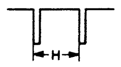
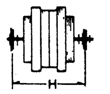
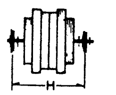
LUMINANCE & CHROMINANCE PACK SCHEMATIC	
Transistor	
Q301	B-5
Q302	F-7
Q303	G-7
Q304	G-5
Q801	A-7
Q802	G-10
Q803	B-11
Q804	A-8
Transistor & Resistor	
QR301	G-2
QR302	G-3
QR303	G-2
QR801	F-13
QR852	C-18
QR853	C-17
Integrated Circuit	
IC301	F-3
IC302	E-6
IC303	E-6
IC801	C-10
IC851	F-19
Test Point	
TP301	D-8
Adjustment	
VR301	E-8
VR302	F-8
VR801	A-8
VR802	A-8
VR803	F-10
T851	E-18

ADDRESS INFORMATION

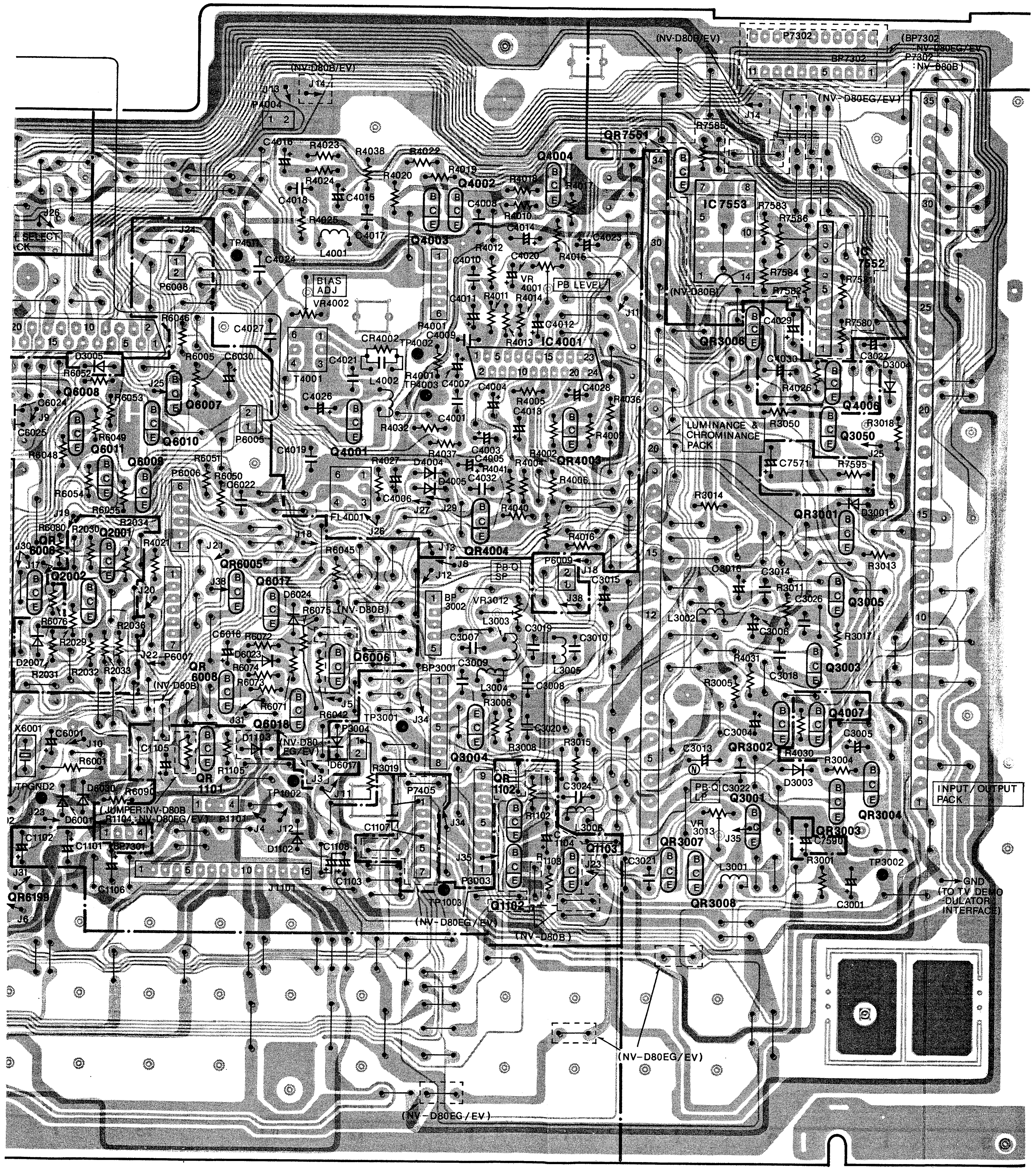
IC301 (VEFH03A)

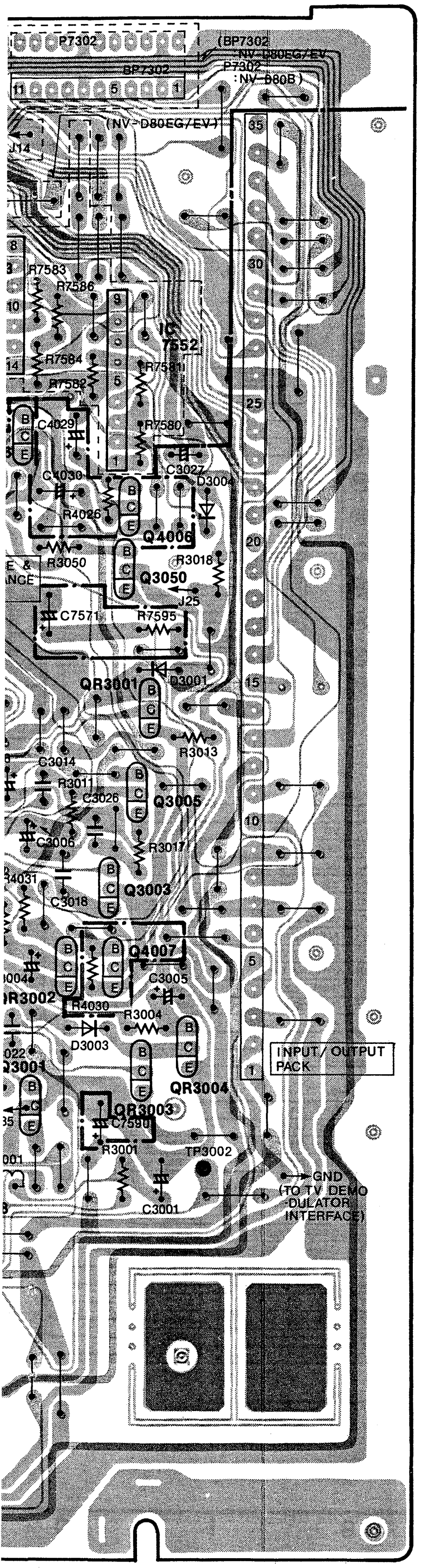
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	 1.0Vp-p (REC/P.B)	28	 0.4Vp-p (P.B)
2	 5.0Vp-p (REC/P.B)	30	 1.2Vp-p (P.B)
3	 1.0Vp-p (REC/P.B)	35	 0.5Vp-p (P.B)
5	 0.6Vp-p (REC)	37, 38	 0.8Vp-p (REC)
5	 0.6Vp-p (P.B)	37, 38	 0.9Vp-p (P.B)
7, 8	 0.35Vp-p (REC) 0.5Vp-p (P.B)	39	 5.0Vp-p (PAUSE/STILL)
11	 0.3Vp-p (REC/P.B)	40	 2.0Vp-p (REC/P.B)
13, 15	 0.8Vp-p (REC/P.B)	41	 0.2Vp-p (REC/P.B)
16	 0.6Vp-p (REC/P.B)		
17	 0.7Vp-p (REC/P.B)		
22	 1.0Vp-p (REC)		
24, 27	 0.8Vp-p (P.B)		

IC801 (VEFH04A)

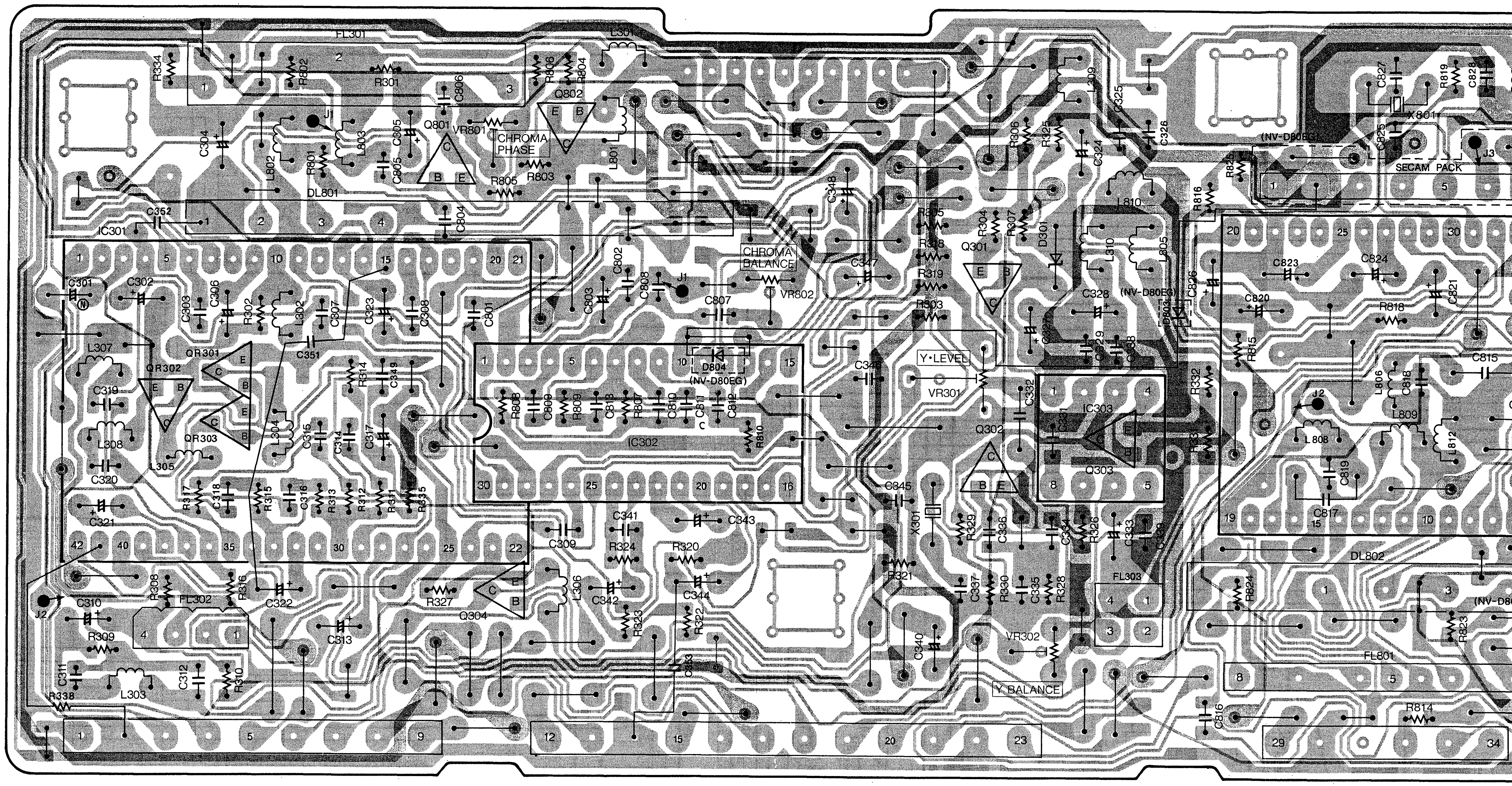
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	 0.15Vp-p (REC/P.B)	15	 0.5Vp-p (REC)
3	 0.5Vp-p (REC/P.B)	17	 0.4Vp-p (REC) 0.3Vp-p (P.B)
5	 2.5Vp-p (REC/P.B)	18	 1.2Vp-p (REC) 1.0Vp-p (P.B)
6	 5.0Vp-p (REC/P.B)	19	 0.2Vp-p (REC/P.B)
7	 0.6Vp-p (REC) 0.5Vp-p (P.B)	28	 0.7Vp-p (REC/P.B)
9	 0.4Vp-p (REC/P.B)	29	 1.0Vp-p (REC/P.B)
10	 1.0Vp-p (REC)	31	 0.7Vp-p (REC/P.B)
10	 0.4Vp-p (P.B)	32	 5.0Vp-p (REC/P.B)
11	 0.4Vp-p (REC) 0.2Vp-p (P.B)	33	 0.35Vp-p (REC/P.B)
12	 1.0Vp-p (REC/P.B)	34	 5.0Vp-p (REC/P.B)
13	 0.3Vp-p (P.B)	35	 5.0Vp-p (REC/P.B)
14	 0.3Vp-p (REC) 0.2Vp-p (P.B)	38	 1.0Vp-p (P.B)

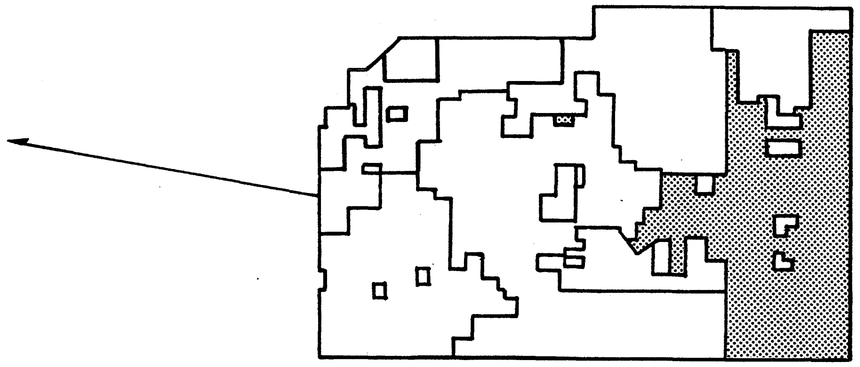
3-20. LUMINANCE & CHROMINANCE Section In Main C.B.A. (VEP03410A: NV-D80EG) (VEP03410C: NV-D80B) (VEP03410B: NV-D80EV)


(NV-D80B/EV)
P7302
BP7302
(BP7302
NV-D80EG/EV
P7302
NV-D80B)
(NV-D80EG/EV)
IC7553
IC7552
QR7501
Q4004
Q4002
Q4003
BIAS ADJ
VR4002
PB LEVEL
VR 4001
IC4001
QR3008
LUMINANCE & CHROMINANCE PACK
Q4006
Q3050
QR3001
Q6008
Q6007
Q6010
Q6011
Q6009
Q4001
QR4003
QR4004
QR6005
Q6017
Q6006
QR6006
Q6018
Q2001
Q2002
QR6006
Q3005
Q3003
Q4007
QR3002
Q3001
QR3004
QR3003
QR3007
Q3004
QR1101
QR1102
Q1103
Q1102
QR6199
TP3001
TP3002
TP1002
TP1003
TP4001
INPUT/OUTPUT PACK
GND (TO TV DEMODULATOR INTERFACE)
JUMPER: NV-D80B R1104: NV-D80EG/EV
(NV-D80EG/EV)
(NV-D80B)
(NV-D80EG/EV)
(NV-D80EG/EV)

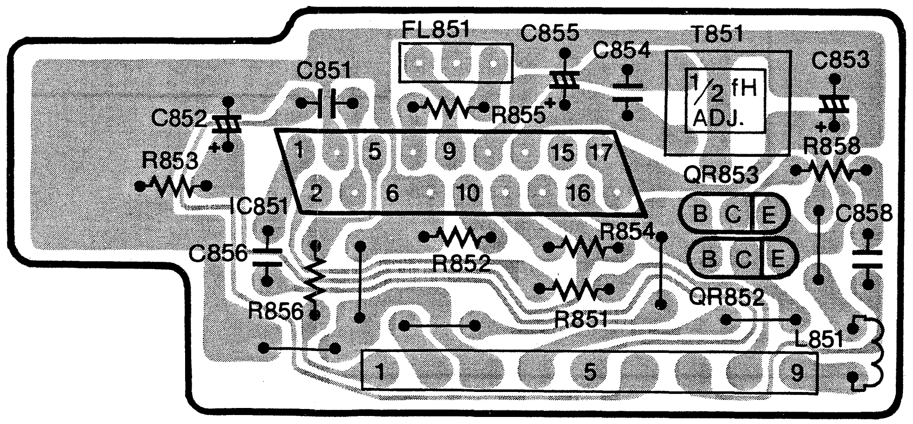

P7302
(BP7302
: NV-D805EG/EV)
F7302
(NV-D80B)
(NV-D80EG/EV)
R7583
R7586
R7584
R7585
R7580
C4029
C4030
C3027
D3004
R4026
Q4006
R3050
R3018
Q3050
C7571
R7595
QR3001
Q3001
R3013
C3014
R3011
C3026
Q3005
C3006
R3017
C3018
Q3003
Q4007
C3005
QR3002
R4030
R3004
D3003
QR3004
QR3003
C7590
R3001
TP3002
C3001
INPUT/ OUTPUT
PACK
GND
(TO TV DEMO
DULATOR
INTERFACE)

3-21. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402D: NV-D80EG) (VEP03402E: NV-D80B/EV)


FL301
L301
R334
R802
R301
C306
R806
R804
Q802
L309
C325
C326
C827
R819
C828
L811
Q804
VR803
PB CHROMA
X801
SECAM PACK
J3
C304
L802
R801
L803
C805
Q801
VR801
CHROMA PHASE
R803
R805
DL801
L801
R306
R325
C324
R305
R307
D301
Q301
R304
R816
R825
IC301
C352
C804
C348
C346
R318
R319
R303
C347
CHROMA BALANCE
VR802
J1
C301
C302
C303
C305
R302
L302
C307
C323
C308
C801
C802
C808
C803
C807
C351
QR301
QR302
L307
C319
L308
C320
QR303
L304
C315
C314
C317
R314
C349
C316
R313
R312
R311
R335
R317
C318
R315
C321
D804
(NV-D80EG)
R808
C809
R809
C810
R807
C811
C812
R810
IC302
C341
C343
R324
R320
C309
C344
C342
R323
R322
C313
C312
R310
C311
R338
L303
R309
C310
J2
R308
FL302
R316
C322
R327
Q304
L306
C333
Y·LEVEL
VR301
C339
C332
IC303
Q302
Q303
C345
X301
R329
C336
C334
R326
C333
C329
C328
L810
L805
C338
(NV-D80EG)
R321
C337
R330
C335
R328
FL303
C340
VR302
Y BALANCE
C826
R815
R332
R831
IC801
C823
C824
C820
R818
C821
C815
L806
C816
J2
L808
L809
L812
C829
QR801
R817
R822
D801
C819
C817
DL802
L804
R824
R812
R823
(NV-D80EG) J31
D802
C814
R811
FL801
C816
R814
Q803
R813



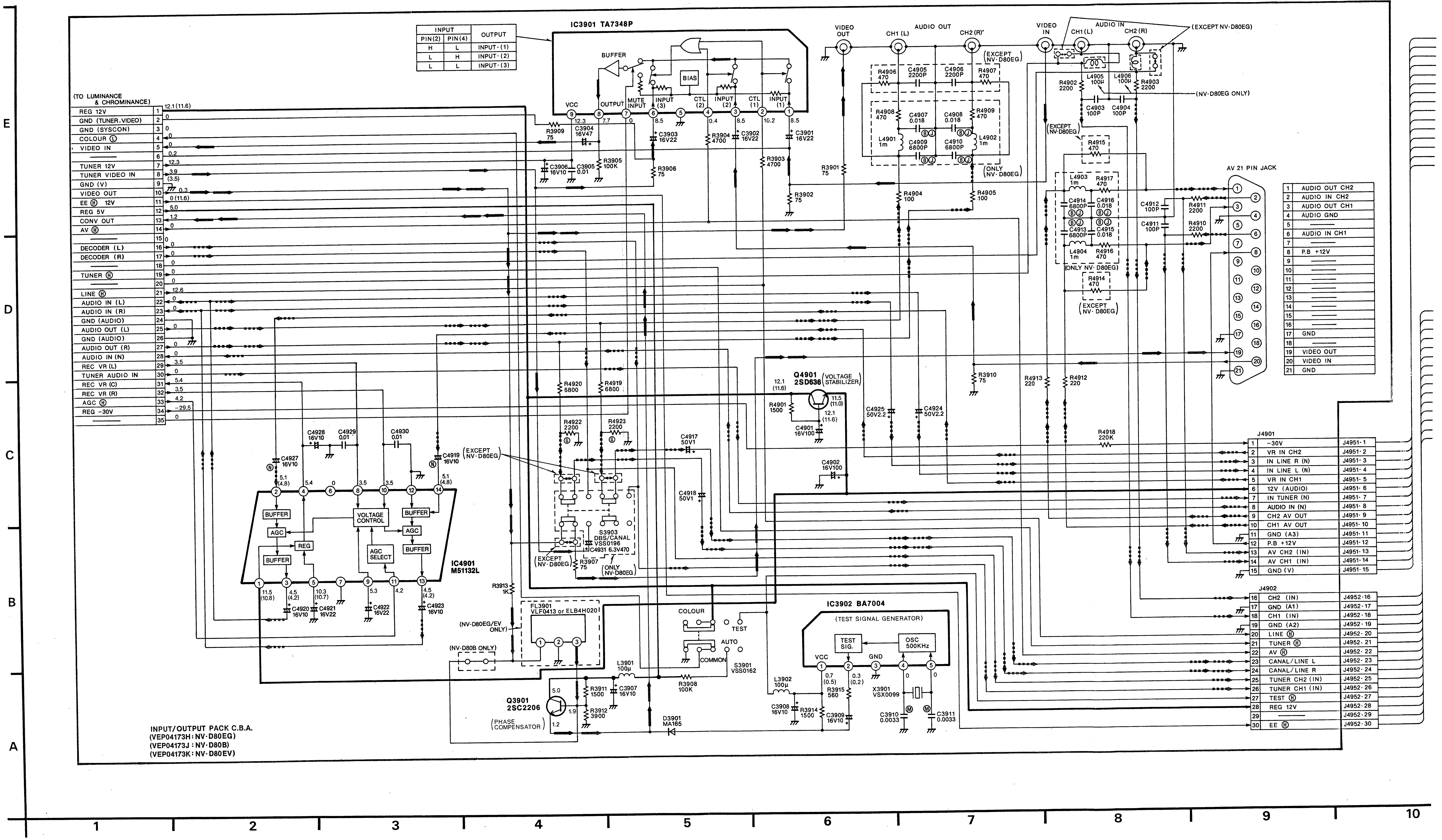
3-22. SECAM PACK C.B.A. (VEP03452A: NV-D80EG)


FL851
C855
C854
T851
1/2 fH ADJ.
C853
C851
C852
R855
R853
R858
QR853
IC851
C858
R854
C856
R852
QR852
R856
R851
L851

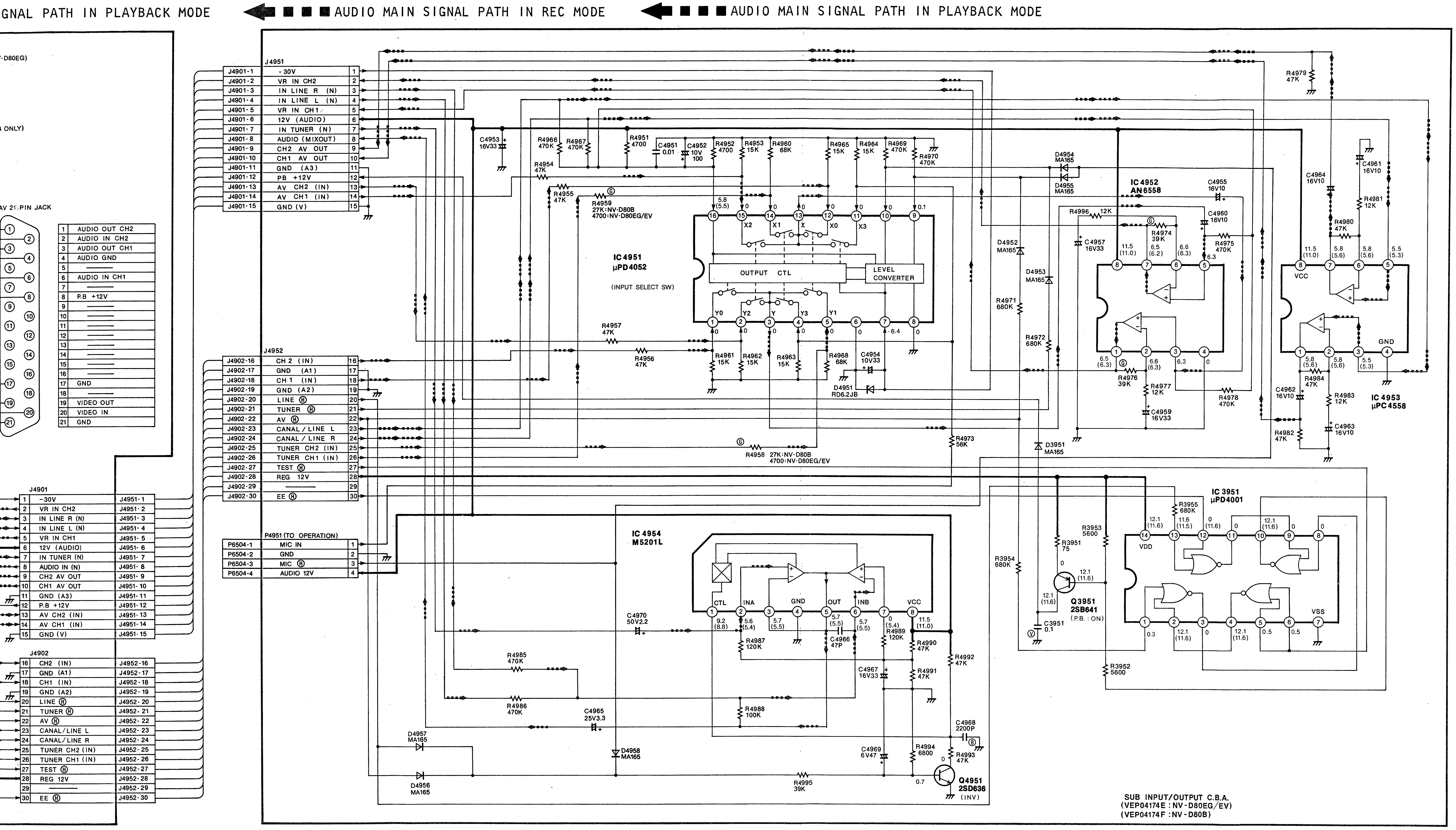
3-23. INPUT/OUTPUT PACK & SUB INPUT/OUTPUT SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE


E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
(TO LUMINANCE & CHROMINANCE)
1 REG 12V
2 GND (TUNER, VIDEO)
3 GND (SYSCON)
4 COLOUR Ⓛ
5 VIDEO IN
7 TUNER 12V
8 TUNER VIDEO IN
9 GND (V)
10 VIDEO OUT
11 EE Ⓗ 12V
12 REG 5V
13 CONV OUT
14 AV Ⓗ
16 DECODER (L)
17 DECODER (R)
19 TUNER Ⓗ
21 LINE Ⓗ
22 AUDIO IN (L)
23 AUDIO IN (R)
24 GND (AUDIO)
25 AUDIO OUT (L)
26 GND (AUDIO)
27 AUDIO OUT (R)
28 AUDIO IN (N)
29 REC VR (L)
30 TUNER AUDIO IN
31 REC VR (C)
32 REC VR (R)
33 AGC Ⓗ
34 REG -30V
INPUT PIN(2) PIN(4) OUTPUT
H L INPUT·(1)
L H INPUT·(2)
L L INPUT·(3)
IC3901 TA7348P
BUFFER
BIAS
VCC
OUTPUT
MUTE INPUT
INPUT (3)
CTL (2)
INPUT (2)
CTL (1)
INPUT (1)
VIDEO OUT
AUDIO OUT
CH1 (L)
CH2 (R)
VIDEO IN
AUDIO IN
CH1 (L)
CH2 (R)
(EXCEPT NV-D80EG)
(NV-D80EG ONLY)
(ONLY NV-D80EG)
AV 21 PIN JACK
1 AUDIO OUT CH2
2 AUDIO IN CH2
3 AUDIO OUT CH1
4 AUDIO GND
6 AUDIO IN CH1
8 P.B +12V
17 GND
19 VIDEO OUT
20 VIDEO IN
21 GND
Q4901 2SD636 (VOLTAGE STABILIZER)
IC4901 M51132L
BUFFER
AGC
REG
VOLTAGE CONTROL
AGC SELECT
S3903 DBS/CANAL VSS0196
FL3901 VLF0413 or ELB4H020
(NV-D80EG/EV ONLY)
(NV-D80B ONLY)
Q3901 2SC2206 (PHASE COMPENSATOR)
D3901 MA165
COLOUR
TEST
AUTO
COMMON
S3901 VSS0162
IC3902 BA7004
(TEST SIGNAL GENERATOR)
TEST SIG.
OSC 500KHz
GND
X3901 VSX0099
J4901
1 -30V J4951-1
2 VR IN CH2 J4951-2
3 IN LINE R (N) J4951-3
4 IN LINE L (N) J4951-4
5 VR IN CH1 J4951-5
6 12V (AUDIO) J4951-6
7 IN TUNER (N) J4951-7
8 AUDIO IN (N) J4951-8
9 CH2 AV OUT J4951-9
10 CH1 AV OUT J4951-10
11 GND (A3) J4951-11
12 P.B +12V J4951-12
13 AV CH2 (IN) J4951-13
14 AV CH1 (IN) J4951-14
15 GND (V) J4951-15
J4902
16 CH2 (IN) J4952-16
17 GND (A1) J4952-17
18 CH1 (IN) J4952-18
19 GND (A2) J4952-19
20 LINE Ⓗ J4952-20
21 TUNER Ⓗ J4952-21
22 AV Ⓗ J4952-22
23 CANAL/LINE L J4952-23
24 CANAL/LINE R J4952-24
25 TUNER CH2 (IN) J4952-25
26 TUNER CH1 (IN) J4952-26
27 TEST Ⓗ J4952-27
28 REG 12V J4952-28
29 J4952-29
30 EE Ⓗ J4952-30
INPUT/OUTPUT PACK C.B.A.
(VEP04173H: NV-D80EG)
(VEP04173J: NV-D80B)
(VEP04173K: NV-D80EV)

Back Page:
LUMINANCE & CHROMINANCE Section


GNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
-D80EG)
ONLY)
AV 21 PIN JACK
1 AUDIO OUT CH2
2 AUDIO IN CH2
3 AUDIO OUT CH1
4 AUDIO GND
6 AUDIO IN CH1
8 P.B +12V
17 GND
19 VIDEO OUT
20 VIDEO IN
21 GND
J4951
J4901-1 -30V
J4901-2 VR IN CH2
J4901-3 IN LINE R (N)
J4901-4 IN LINE L (N)
J4901-5 VR IN CH1
J4901-6 12V (AUDIO)
J4901-7 IN TUNER (N)
J4901-8 AUDIO (MIXOUT)
J4901-9 CH2 AV OUT
J4901-10 CH1 AV OUT
J4901-11 GND (A3)
J4901-12 PB +12V
J4901-13 AV CH2 (IN)
J4901-14 AV CH1 (IN)
J4901-15 GND (V)
J4952
J4902-16 CH 2 (IN)
J4902-17 GND (A1)
J4902-18 CH 1 (IN)
J4902-19 GND (A2)
J4902-20 LINE Ⓗ
J4902-21 TUNER Ⓗ
J4902-22 AV Ⓗ
J4902-23 CANAL / LINE L
J4902-24 CANAL / LINE R
J4902-25 TUNER CH2 (IN)
J4902-26 TUNER CH1 (IN)
J4902-27 TEST Ⓗ
J4902-28 REG 12V
J4902-29
J4902-30 EE Ⓗ
P4951 (TO OPERATION)
P6504-1 MIC IN
P6504-2 GND
P6504-3 MIC Ⓗ
P6504-4 AUDIO 12V
J4901
1 -30V J4951-1
2 VR IN CH2 J4951-2
3 IN LINE R (N) J4951-3
4 IN LINE L (N) J4951-4
5 VR IN CH1 J4951-5
6 12V (AUDIO) J4951-6
7 IN TUNER (N) J4951-7
8 AUDIO IN (N) J4951-8
9 CH2 AV OUT J4951-9
10 CH1 AV OUT J4951-10
11 GND (A3) J4951-11
12 P.B +12V J4951-12
13 AV CH2 (IN) J4951-13
14 AV CH1 (IN) J4951-14
15 GND (V) J4951-15
J4902
16 CH2 (IN) J4952-16
17 GND (A1) J4952-17
18 CH1 (IN) J4952-18
19 GND (A2) J4952-19
20 LINE Ⓗ J4952-20
21 TUNER Ⓗ J4952-21
22 AV Ⓗ J4952-22
23 CANAL/LINE L J4952-23
24 CANAL/LINE R J4952-24
25 TUNER CH2 (IN) J4952-25
26 TUNER CH1 (IN) J4952-26
27 TEST Ⓗ J4952-27
28 REG 12V J4952-28
29 J4952-29
30 EE Ⓗ J4952-30
C4953 16V33
R4966 470K
R4967 470K
R4951 4700
C4951 0.01
C4952 10V 100
R4952 4700
R4953 15K
R4960 68K
R4965 15K
R4964 15K
R4969 470K
R4970 470K
R4954 47K
R4955 47K
R4959 27K:NV-D80B 4700:NV-D80EG/EV
IC4951 µPD4052
(INPUT SELECT SW)
OUTPUT CTL
LEVEL CONVERTER
X2 X1 X X0 X3
Y0 Y2 Y Y3 Y1
R4957 47K
R4956 47K
R4961 15K
R4962 15K
R4963 15K
R4968 68K
C4954 10V33
D4951 RD6.2JB
R4958 27K:NV-D80B 4700:NV-D80EG/EV
R4973 56K
D4954 MA165
D4955 MA165
D4952 MA165
D4953 MA165
R4971 680K
R4972 680K
IC4952 AN6558
C4955 16V10
C4960 16V10
R4996 12K
R4974 39K
R4975 470K
C4957 16V33
R4976 39K
R4977 12K
C4959 16V33
R4978 470K
D3951 MA165
R4979 47K
C4964 16V10
C4961 16V10
R4981 12K
R4980 47K
VCC
GND
R4984 47K
C4962 16V10
R4983 12K
C4963 16V10
R4982 47K
IC4953 µPC4558
IC3951 µPD4001
R3955 680K
R3953 5600
R3951 75
R3954 680K
Q3951 2SB641 (P.B. : ON)
C3951 0.1
R3952 5600
VDD
VSS
IC4964 M5201L
CTL INA GND OUT INB VCC
C4970 50V2.2
R4987 120K
C4966 47P
R4989 120K
R4990 47K
R4992 47K
C4967 16V33
R4991 47K
R4985 470K
R4986 470K
C4965 25V3.3
R4988 100K
C4968 2200P
D4957 MA165
D4958 MA165
D4956 MA165
C4969 6V47
R4994 6800
R4993 47K
R4995 39K
Q4951 2SD636 (INV)
SUB INPUT/OUTPUT C.B.A.
(VEP04174E : NV-D80EG/EV)
(VEP04174F : NV-D80B)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

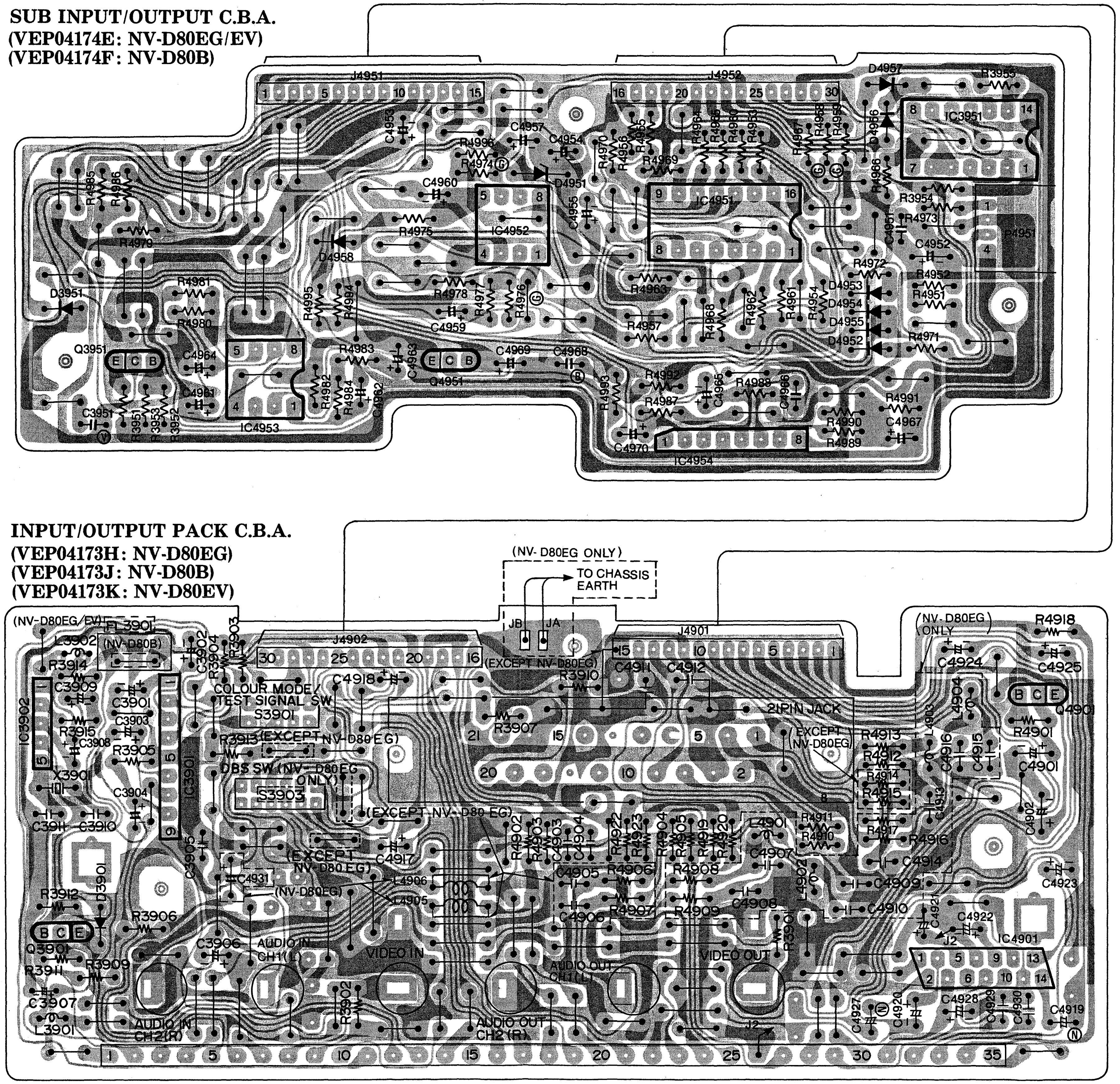
3-24. INPUT/OUTPUT PACK C.B.A. (VEP04173H: NV-D80EG) (VEP04173J: NV-D80B) (VEP04173K: NV-D80EV) & SUB INPUT/OUTPUT C.B.A. (VEP04174E: NV-D80EG/EV) (VEP04174F: NV-D80B)

INPUT/OUTPUT PACK SCHEMATIC	
Transistor	
Q3901	A-4
Q3951	B-16
Q4901	C-6
Q4951	A-15
Integrated Circuit	
IC3901	E-4
IC3902	B-6
IC3951	C-17
IC4901	B-3
IC4951	D-13
IC4952	E-16
IC4953	D-18
IC4954	C-13
Connector	
P4951	C-11
J4901	C-9
J4902	B-9
J4951	E-11
J4952	D-11

ADDRESS INFORMATION

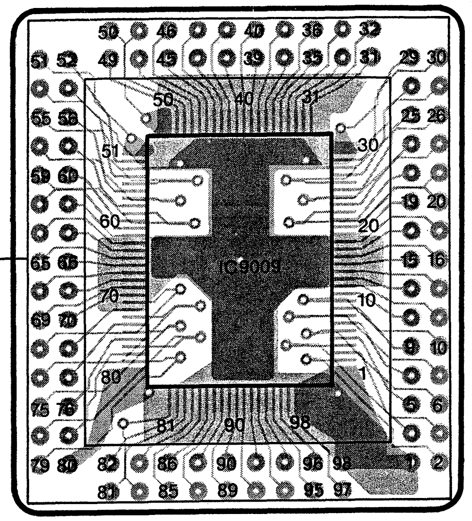
SUB INPUT/OUTPUT C.B.A.
(VEP04174E: NV-D80EG/EV)
(VEP04174F: NV-D80B)

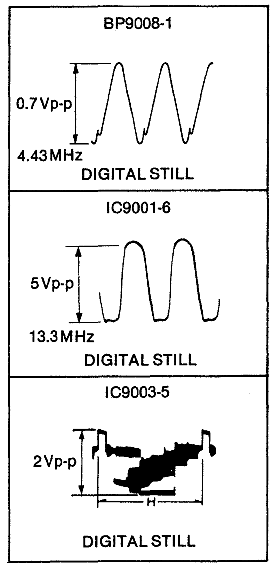
INPUT/OUTPUT PACK C.B.A.
(VEP04173H: NV-D80EG)
(VEP04173J: NV-D80B)
(VEP04173K: NV-D80EV)


J4951
J4952
D4957
R3953
IC3951
C4957
C4954
R4998
R4974
D4951
C4960
IC4952
IC4951
R4975
D4958
R4979
R4985
R4986
D3951
R4981
R4980
Q3951
E C B
C4964
C4961
C3951
R3951
R3953
R3952
IC4953
R4983
R4982
R4984
C4962
C4963
Q4951
C4969
C4968
R4978
C4959
R4977
R4976
R4995
R4994
R4993
R4992
R4987
C4965
R4988
C4966
C4970
IC4954
R4991
R4990
C4967
R4989
R4963
R4957
R4962
R4961
R4954
D4953
D4954
D4955
D4952
R4971
R4972
R4952
R4951
C4952
R4973
R3954
R4966
P4951
(NV-D80EG ONLY)
TO CHASSIS EARTH
JB
JA
(NV-D80EG/EV)
FL3901
(NV-D80B)
L3902
R3914
C3909
C3901
C3903
R3915
C3908
R3905
X3901
C3904
IC3902
IC3901
C3911
C3910
R3903
R3904
C3902
J4902
COLOUR MODE/ TEST SIGNAL SW
S3901
C4918
R3913
(EXCEPT NV-D80EG)
DBS SW (NV-D80EG ONLY)
S3903
(EXCEPT NV-D80 EG)
J4901
(EXCEPT NV-D80EG)
R3910
C4911
C4912
R3907
21PIN JACK
(NV-D80EG) ONLY
R4918
C4924
C4925
Q4901
B C E
R4901
C4901
R4913
R4912
R4914
R4915
R4911
R4910
R4917
R4916
C4914
C4909
C4910
C4922
C4923
IC4901
J2
C4905
R4906
C4906
R4907
C4908
R4908
R4909
L4901
C4907
C4917
C4931
(NV-D80EG)
L4906
L4905
R3912
D3901
R3906
Q3901
B C E
R3911
R3909
C3907
L3901
C3906
AUDIO IN CH1(L)
VIDEO IN
AUDIO OUT CH1(L)
VIDEO OUT
AUDIO IN CH2(R)
AUDIO OUT CH2(R)
R3902
R3901
C4927
C4920
C4928
C4929
C4930
C4919
1 5 10 15 20 25 30 35

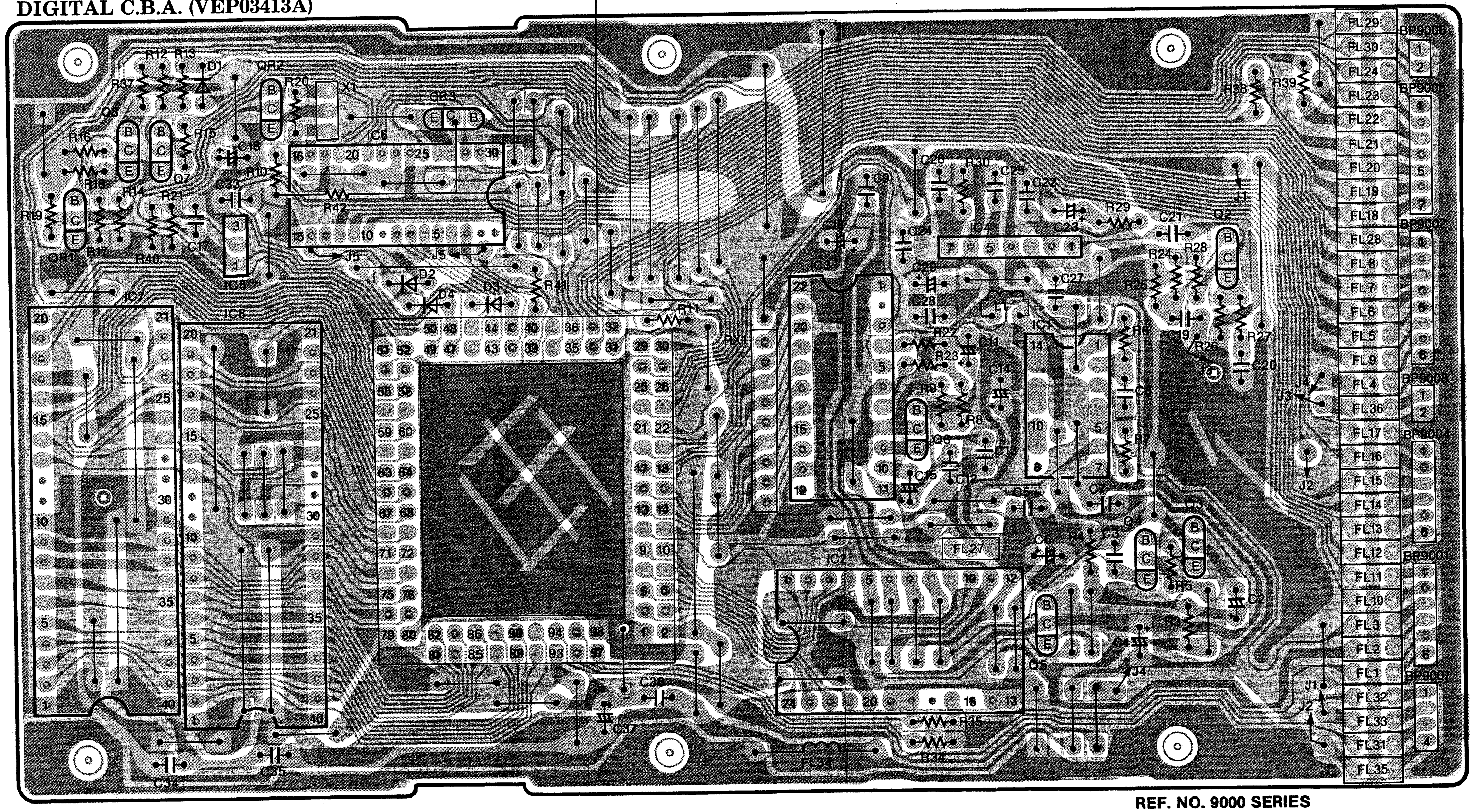
3-25. DIGITAL C.B.A. (VEP03413A)

GATE ARRAY C.B.A. (VEP00J43A)


IC9009
1
10
20
30
40
51
56
60
70
80
81
90
98



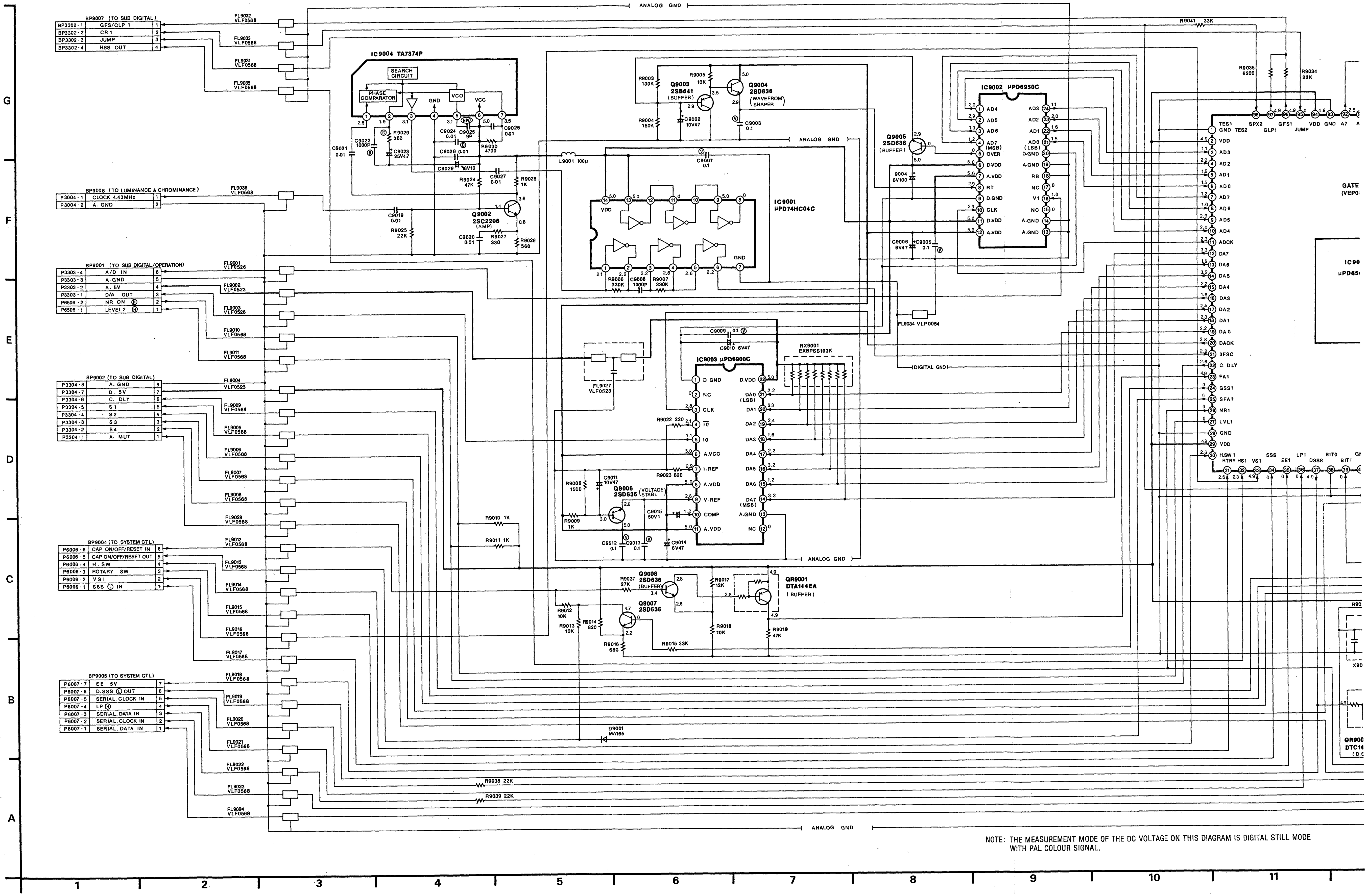
DIGITAL C.B.A. (VEP03413A)


IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
X1
RX1
QR1
QR2
QR3
Q1
Q2
Q3
Q5
Q6
Q7
Q8
D1
D2
D3
D4
L1
J1
J2
J3
J4
J5
FL27
FL34
BP9001
BP9002
BP9004
BP9005
BP9006
BP9007
BP9008

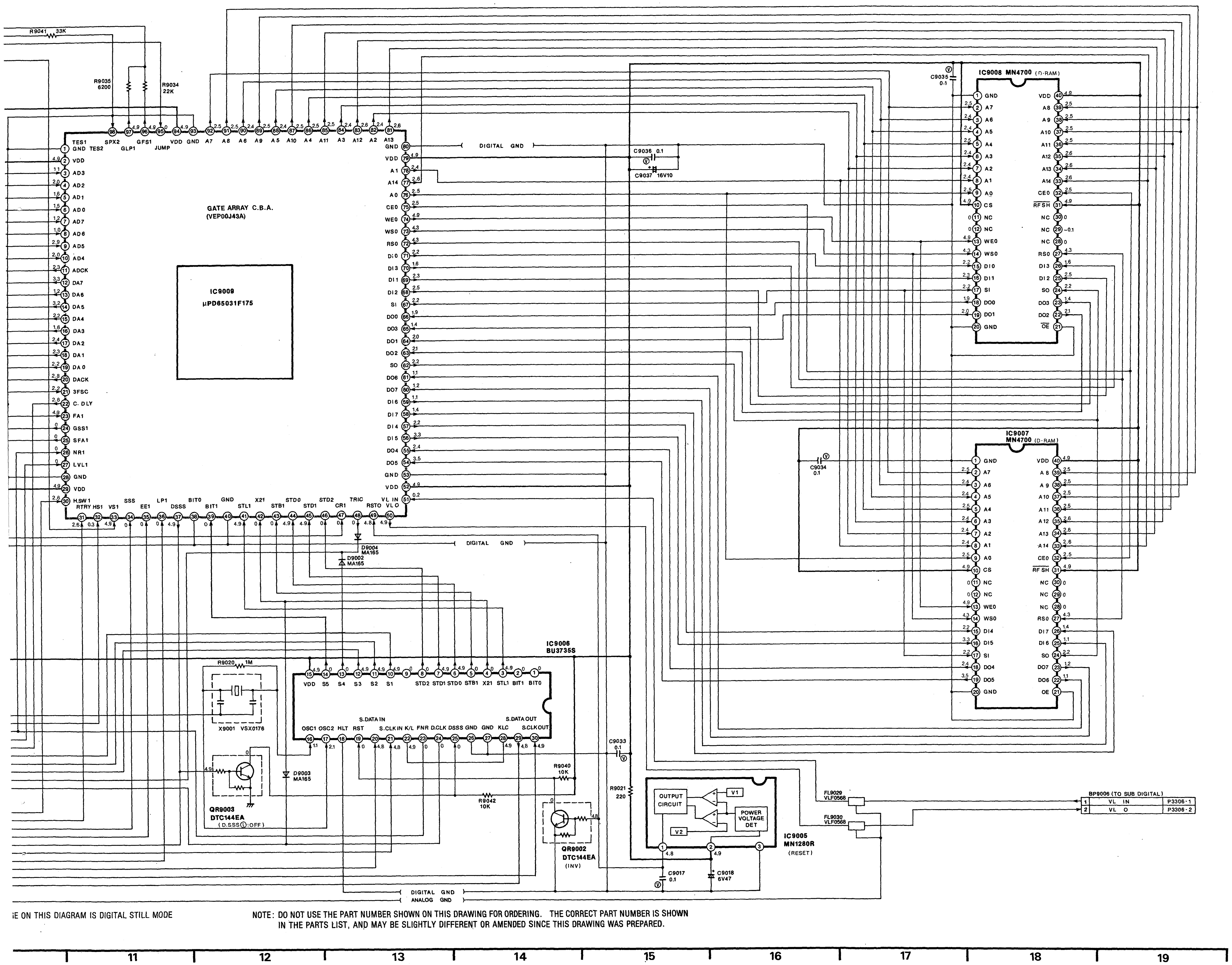
REF. NO. 9000 SERIES

Back Page:
INPUT/OUTPUT Section

3-26. DIGITAL SCHEMATIC DIAGRAM


BP9007 (TO SUB DIGITAL)
BP3302-1 GFS/CLP 1
BP3302-2 CR 1
BP3302-3 JUMP
BP3302-4 HSS OUT
BP9008 (TO LUMINANCE & CHROMINANCE)
P3004-1 CLOCK 4.43MHz
P3004-2 A. GND
BP9001 (TO SUB DIGITAL/OPERATION)
P3303-4 A/D IN
P3303-3 A. GND
P3303-2 A. 5V
P3303-1 D/A OUT
P6506-2 NR ON
P6506-1 LEVEL 2
BP9002 (TO SUB DIGITAL)
P3304-8 A. GND
P3304-7 D. 5V
P3304-6 C. DLY
P3304-5 S 1
P3304-4 S 2
P3304-3 S 3
P3304-2 S 4
P3304-1 A. MUT
BP9004 (TO SYSTEM CTL)
P6006-6 CAP ON/OFF/RESET IN
P6006-5 CAP ON/OFF/RESET OUT
P6006-4 H. SW
P6006-3 ROTARY SW
P6006-2 V S I
P6006-1 SSS IN
BP9005 (TO SYSTEM CTL)
P6007-7 EE 5V
P6007-6 D. SSS OUT
P6007-5 SERIAL. CLOCK IN
P6007-4 LP
P6007-3 SERIAL. DATA IN
P6007-2 SERIAL. CLOCK IN
P6007-1 SERIAL. DATA IN
ANALOG GND
IC9004 TA7374P
SEARCH CIRCUIT
PHASE COMPARATOR
VCO
GND
VCC
Q9002 2SC2206 (AMP)
Q9003 2SB641 (BUFFER)
Q9004 2SD636 (WAVEFROM SHAPER)
IC9001 µPD74HC04C
Q9005 2SD636 (BUFFER)
IC9002 µPD6950C
IC9003 µPD6900C
RX9001 EXBP8S103K
(DIGITAL GND)
FL9034 VLP0054
Q9006 2SD636 (VOLTAGE STABI.)
Q9008 2SD636 (BUFFER)
Q9007 2SD636
QR9001 DTA144EA (BUFFER)
D9001 MA165
L9001 100µ
GATE (VEP0
IC90 µPD65
TES1 GND TES2
SPX2 GLP1 GFS1 JUMP
VDD GND A7
RTRY HS1 VS1 SSS EE1 LP1 DSSS SITO BIT1
X90
QR900 DTC14
A B C D E F G
1 2 3 4 5 6 7 8 9 10 11

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS DIGITAL STILL MODE WITH PAL COLOUR SIGNAL.


R9041 33K
R9035 6200
R9034 22K
GATE ARRAY C.B.A.
(VEP00J43A)
IC9009
μPD65031F175
DIGITAL GND
C9036 0.1
C9037 16V10
IC9008 MN4700 (D-RAM)
C9035 0.1
IC9007
MN4700 (D-RAM)
C9034 0.1
D9004 MA165
D9002 MA165
IC9006
BU3735S
R9020 1M
X9001 VSX0176
D9003 MA165
QR9003
DTC144EA
(D.SSS①:OFF)
R9040 10K
R9042 10K
C9033 0.1
QR9002
DTC144EA
(INV)
R9021 220
OUTPUT CIRCUIT
V1
V2
POWER VOLTAGE DET
IC9005
MN1280R
(RESET)
C9017 0.1
C9018 6V47
FL9029 VLF0568
FL9030 VLF0568
BP9006 (TO SUB DIGITAL)
VL IN
VL O
P3306-1
P3306-2
ANALOG GND
11
12
13
14
15
16
17
18
19

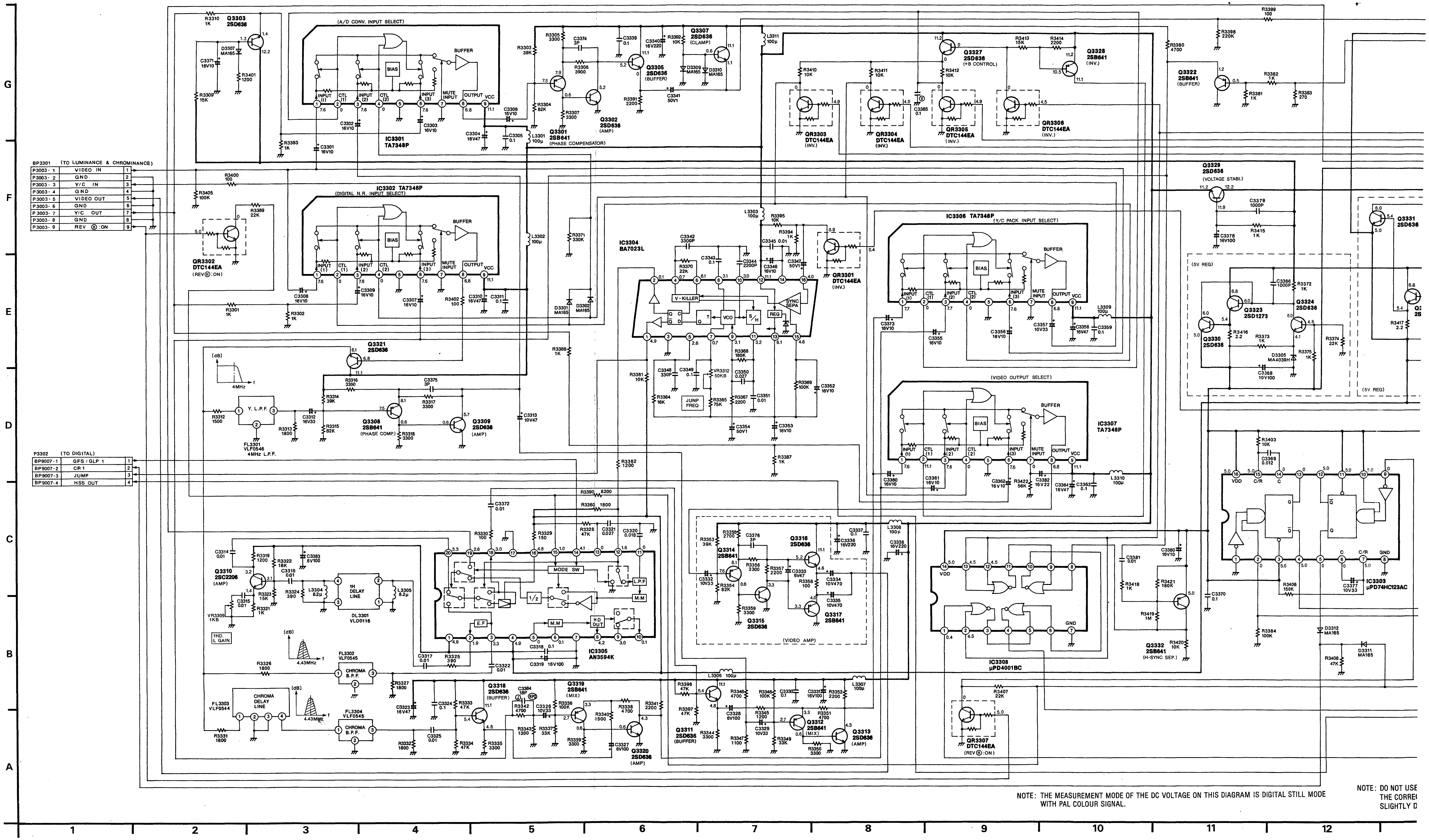
ɪE ON THIS DIAGRAM IS DIGITAL STILL MODE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DIGITAL SCHEMATIC	
Transistor	
Q9002	F-4
Q9003	G-6
Q9004	G-7
Q9005	G-8
Q9006	D-6
Q9007	C-6
Q9008	C-6
Transistor & Resistor	
QR9001	C-7
QR9002	A-14
QR9003	A-12
Integrated Circuit	
IC9001	F-7
IC9002	G-9
IC9003	E-6
IC9004	G-4
IC9005	A-16
IC9006	C-4
IC9007	D-18
IC9008	G-18
IC9009	E-12
Connector	
BP9001	F-1
BP9002	E-1
BP9004	C-1
BP9005	B-1
BP9006	B-18
BP9007	G-1
BP9008	F-1

ADDRESS INFORMATION

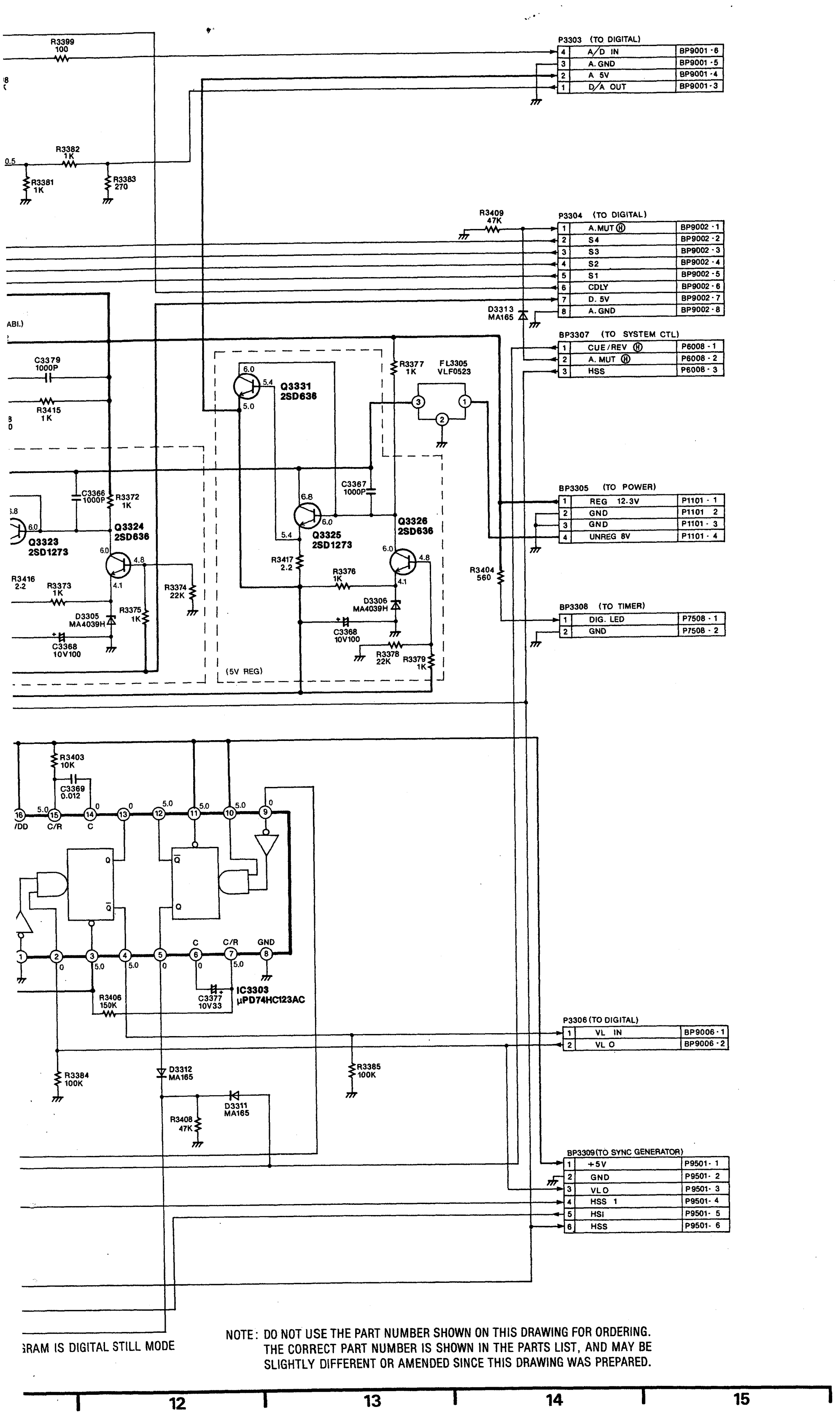
3-27. SUB DIGITAL SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
BP3301 (TO LUMINANCE & CHROMINANCE)
P3003-1 VIDEO IN 1
P3003-2 GND 2
P3003-3 Y/C IN 3
P3003-4 GND 4
P3003-5 VIDEO OUT 5
P3003-6 GND 6
P3003-7 Y/C OUT 7
P3003-8 GND 8
P3003-9 REV Ⓗ:ON 9
P3302 (TO DIGITAL)
BP9007-1 GFS/GLP 1 1
BP9007-2 CR1 2
BP9007-3 JUMP 3
BP9007-4 HSS OUT 4
Q3303 2SD636
D3307 MA165
(A/D CONV. INPUT SELECT)
IC3301 TA7348P
BUFFER
BIAS
INPUT (1)
CTL (1)
INPUT (2)
CTL (2)
INPUT (3)
MUTE INPUT
OUTPUT
VCC
Q3301 2SB641 (PHASE COMPENSATOR)
Q3302 2SD636 (AMP)
Q3305 2SD636 (BUFFER)
Q3307 2SD636 (CLAMP)
D3309 MA165
D3310 MA165
L3301 100μ
L3311 100μ
QR3303 DTC144EA (INV.)
QR3304 DTC144EA (INV.)
QR3305 DTC144EA (INV.)
QR3306 DTC144EA (INV.)
Q3327 2SD636 (+B CONTROL)
Q3328 2SB641 (INV.)
Q3322 2SB641 (BUFFER)
Q3329 2SD636 (VOLTAGE STABI.)
Q3331 2SD636
IC3302 TA7348P (DIGITAL N.R. INPUT SELECT)
QR3302 DTC144EA (REV Ⓗ:ON)
L3302 100μ
D3301 MA165
D3302 MA165
IC3304 BA7023L
V-KILLER
SYNC SEPA
REG
JUMP FREQ
L3303 100μ
QR3301 DTC144EA (INV.)
IC3306 TA7348P (Y/C PACK INPUT SELECT)
L3309 100μ
(5V REG)
Q3323 2SD1273
Q3324 2SD636
Q3330 2SD636
D3305 MA4039H
Q3321 2SD636
4MHz
Y. L.P.F.
FL3301 VLF0546 4MHz L.P.F.
Q3308 2SB641 (PHASE COMP.)
Q3309 2SD636 (AMP)
IC3307 TA7348P (VIDEO OUTPUT SELECT)
L3310 100μ
IC3303 μPD74HC123AC
VDD
C/R
GND
Q3310 2SC2206 (AMP)
1H DELAY LINE
DL3301 VLD0116
L3304 82μ
L3305 8.2μ
1HD. L GAIN
IC3305 AN3594K
MODE SW
L.P.F
M.M
E.F
HD OUT
1/2
FL3302 VLF0545
CHROMA B.P.F.
4.43MHz
FL3303 VLF0544
CHROMA DELAY LINE
FL3304 VLF0545
Q3314 2SB641
Q3316 2SD636
Q3315 2SD636
Q3317 2SB641
(VIDEO AMP)
L3308 100μ
IC3308 μPD4001BC
Q3332 2SB641 (H-SYNC SEP.)
D3312 MA165
D3311 MA165
Q3318 2SD636 (BUFFER)
Q3319 2SB641 (MIX)
Q3320 2SD636 (AMP)
Q3311 2SD636 (BUFFER)
Q3312 2SB641 (MIX)
Q3313 2SD636 (AMP)
L3306 100μ
L3307 100μ
QR3307 DTC144EA (REV Ⓗ:ON)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS DIGITAL STILL MODE
WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE
THE CORRE
SLIGHTLY D

Back Page:
DIGITAL Section

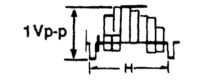

R3399 100
R3382 1K
R3381 1K
R3383 270
R3409 47K
D3313 MA165
P3303 (TO DIGITAL)
4 A/D IN BP9001-6
3 A.GND BP9001-5
2 A 5V BP9001-4
1 D/A OUT BP9001-3
P3304 (TO DIGITAL)
1 A.MUT ⓡ BP9002-1
2 S4 BP9002-2
3 S3 BP9002-3
4 S2 BP9002-4
5 S1 BP9002-5
6 CDLY BP9002-6
7 D. 5V BP9002-7
8 A.GND BP9002-8
BP3307 (TO SYSTEM CTL)
1 CUE/REV ⓡ P6008-1
2 A. MUT ⓡ P6008-2
3 HSS P6008-3
C3379 1000P
R3415 1K
Q3331 2SD636
R3377 1K
FL3305 VLF0523
C3367 1000P
C3366 1000P
R3372 1K
Q3323 2SD1273
Q3324 2SD636
Q3325 2SD1273
Q3326 2SD636
R3416 2.2
R3373 1K
R3374 22K
R3375 1K
D3305 MA4039H
C3368 10V100
R3417 2.2
R3376 1K
D3306 MA4039H
C3368 10V100
R3378 22K
R3379 1K
R3404 560
(5V REG)
BP3305 (TO POWER)
1 REG 12.3V P1101-1
2 GND P1101-2
3 GND P1101-3
4 UNREG 8V P1101-4
BP3308 (TO TIMER)
1 DIG. LED P7508-1
2 GND P7508-2
R3403 10K
C3369 0.012
VDD C/R C
C C/R GND
IC3303 μPD74HC123AC
R3406 150K
C3377 10V33
P3306 (TO DIGITAL)
1 VL IN BP9006-1
2 VL O BP9006-2
R3384 100K
D3312 MA165
R3385 100K
R3408 47K
D3311 MA165
BP3309 (TO SYNC GENERATOR)
1 +5V P9501-1
2 GND P9501-2
3 VLO P9501-3
4 HSS 1 P9501-4
5 HSI P9501-5
6 HSS P9501-6
RAM IS DIGITAL STILL MODE
12
13
14
15

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SUB DIGITAL SCHEMATIC	
Transistor	
Q3301	G-5
Q3302	G-6
Q3303	G-3
Q3305	G-6
Q3307	G-7
Q3308	D-4
Q3309	D-4
Q3310	C-3
Q3311	B-7
Q3312	A-7
Q3313	A-8
Q3314	C-7
Q3315	C-7
Q3316	C-8
Q3317	B-8
Q3318	A-5
Q3319	A-5
Q3320	A-6
Q3321	D-4
Q3322	G-11
Q3323	E-11
Q3324	E-12
Q3325	E-13
Q3326	E-13
Q3327	G-9
Q3328	G-10
Q3329	F-11
Q3330	E-11
Q3331	F-12
Q3332	B-11
Transistor & Resistor	
QR3301	E-8
QR3302	F-2
QR3303	G-7
QR3304	G-8
QR3305	G-9
QR3306	G-9
QR3307	A-9
Integrated Circuit	
IC3301	G-4
IC3302	E-4
IC3303	C-12
IC3304	E-7
IC3305	B-5
IC3306	E-9
IC3307	D-9
IC3308	B-9
Adjustmen	
VR3309	B-2
VR3312	D-7
Connector	
P3302	D-1
P3303	G-14
P3304	G-14
P3306	B-14
BP3301	F-1
BP3305	E-14
BP3307	F-14
BP3308	E-14
BP3309	B-14

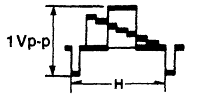
ADDRESS INFORMATION

BP3301-1
Q3313-C



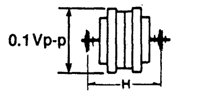
DIGITAL STILL

Q3309-C



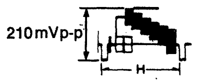
DIGITAL STILL

Q3311-B
Q3318-E



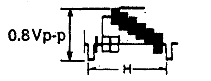
DIGITAL STILL

Q3319-B



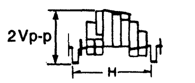
DIGITAL STILL

Q3320-C



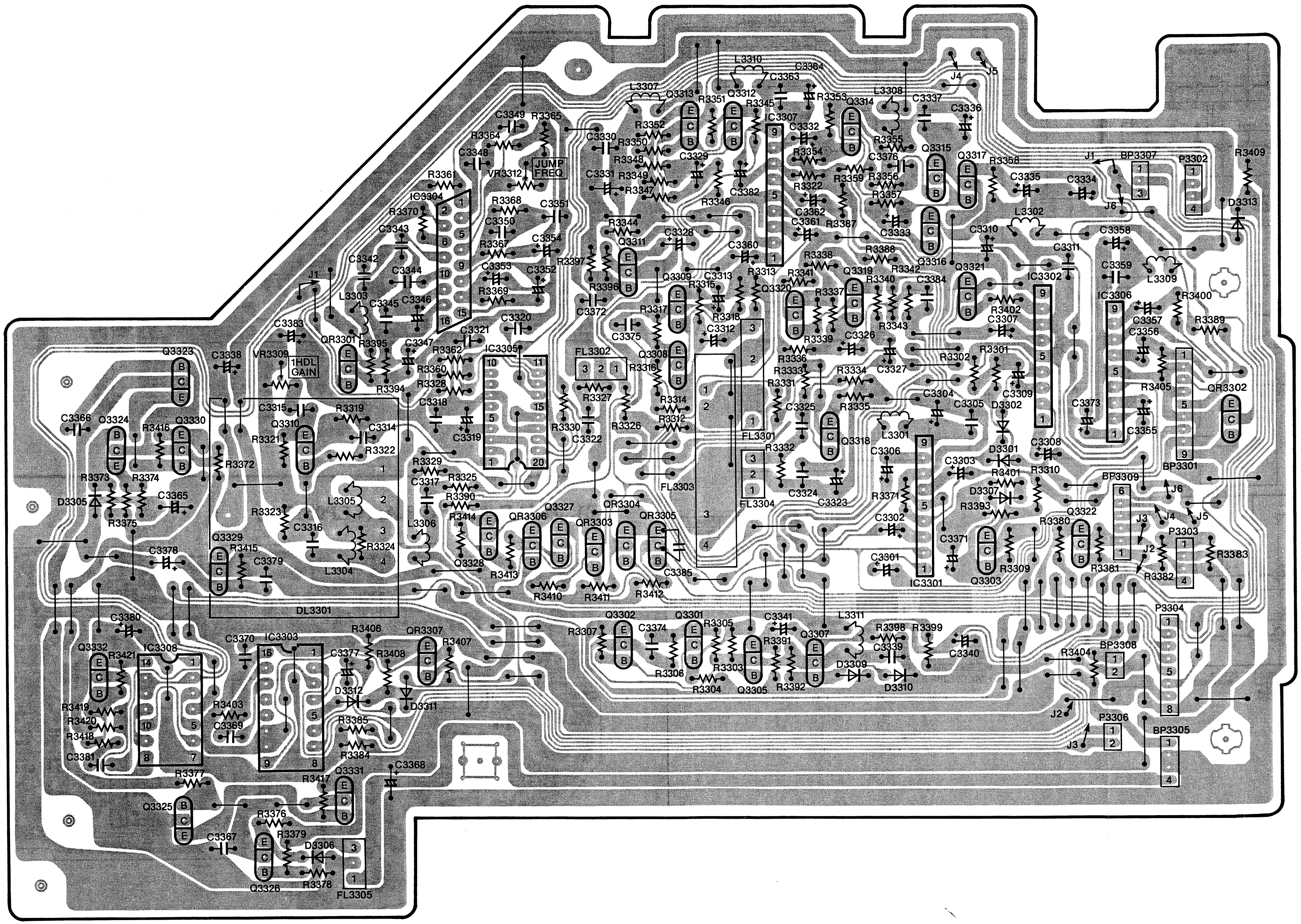
DIGITAL STILL

BP3301-5



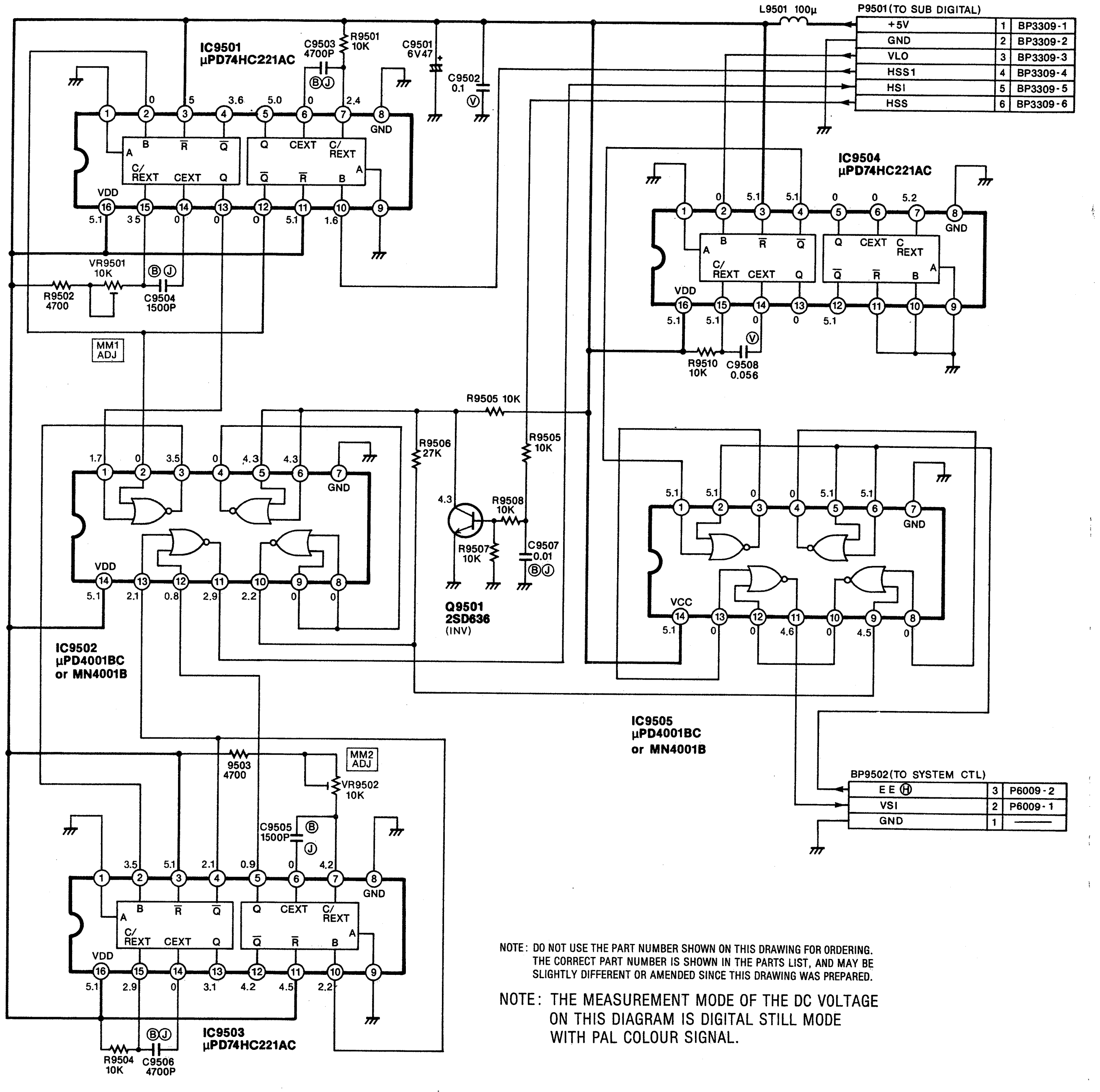
DIGITAL STILL

3-28. SUB DIGITAL C.B.A. (VEP03414A)



L3310
C3364
C3363
J4
J5
L3307
Q3313
Q3312
R3351
R3345
R3353
L3308
C3337
C3336
Q3314
C3349
R3365
C3330
R3352
C3307
C3332
R3364
C3348
R3350
R3348
C3329
R3355
Q3315
Q3317
R3358
J1
BP3307
P3302
R3409
JUMP FREQ
VR3312
R3361
C3331
R3349
R3354
C3376
R3356
C3335
C3334
IC3304
R3347
R3346
C3382
R3322
R3359
R3357
J6
D3313
R3368
C3351
R3370
C3350
R3344
C3362
C3361
R3387
C3333
L3302
C3343
C3354
Q3311
C3328
R3367
C3360
C3310
C3358
C3342
C3353
C3352
R3397
R3338
R3388
Q3316
Q3321
C3311
C3344
R3396
Q3309
C3313
R3313
Q3320
R3341
R3342
Q3319
R3340
C3384
IC3302
C3359
L3309
L3303
C3345
C3346
R3369
C3372
R3315
R3337
R3402
C3307
IC3306
R3400
C3383
C3320
C3321
R3317
R3318
C3312
C3375
R3389
C3357
C3356
QR3301
R3395
C3347
R3362
IC3305
FL3302
R3316
Q3308
R3339
C3326
R3343
R3336
R3302
R3301
Q3323
C3338
VR3309
1HDL GAIN
R3360
R3328
R3394
R3327
R3333
R3334
C3327
R3405
QR3302
C3318
R3314
R3331
C3309
C3315
R3319
C3366
Q3324
R3416
Q3330
Q3310
C3314
C3319
R3330
C3322
R3326
R3312
C3325
R3335
C3304
C3305
D3302
C3373
C3355
R3321
R3322
L3301
R3372
R3329
FL3301
R3332
Q3318
C3306
D3301
C3308
BP3301
C3317
R3325
FL3303
C3324
C3323
C3303
R3401
R3310
R3373
R3374
D3305
C3365
R3390
L3305
FL3304
D3307
BP3309
R3393
R3375
R3323
C3316
Q3327
QR3304
QR3305
R3371
C3302
R3380
Q3322
J3
Q3329
R3415
L3306
R3414
QR3306
QR3303
P3303
C3378
R3324
C3371
C3301
J2
R3383
C3379
L3304
Q3328
R3413
C3385
R3309
Q3303
IC3301
R3381
R3382
R3410
R3411
R3412
DL3301
P3304
C3380
R3307
Q3302
C3374
Q3301
R3305
C3341
L3311
R3398
R3399
Q3332
R3421
IC3308
C3370
IC3303
R3406
QR3307
R3407
C3377
R3408
R3391
Q3307
C3339
C3340
BP3308
R3404
R3303
R3306
D3312
D3311
R3304
Q3305
R3392
D3309
D3310
R3419
R3403
R3420
C3369
R3385
R3418
P3306
BP3305
R3384
C3381
C3368
Q3331
R3377
R3417
Q3325
R3376
C3367
R3379
D3306
Q3326
R3378
FL3305

3-29. SYNC GENERATOR SCHEMATIC DIAGRAM



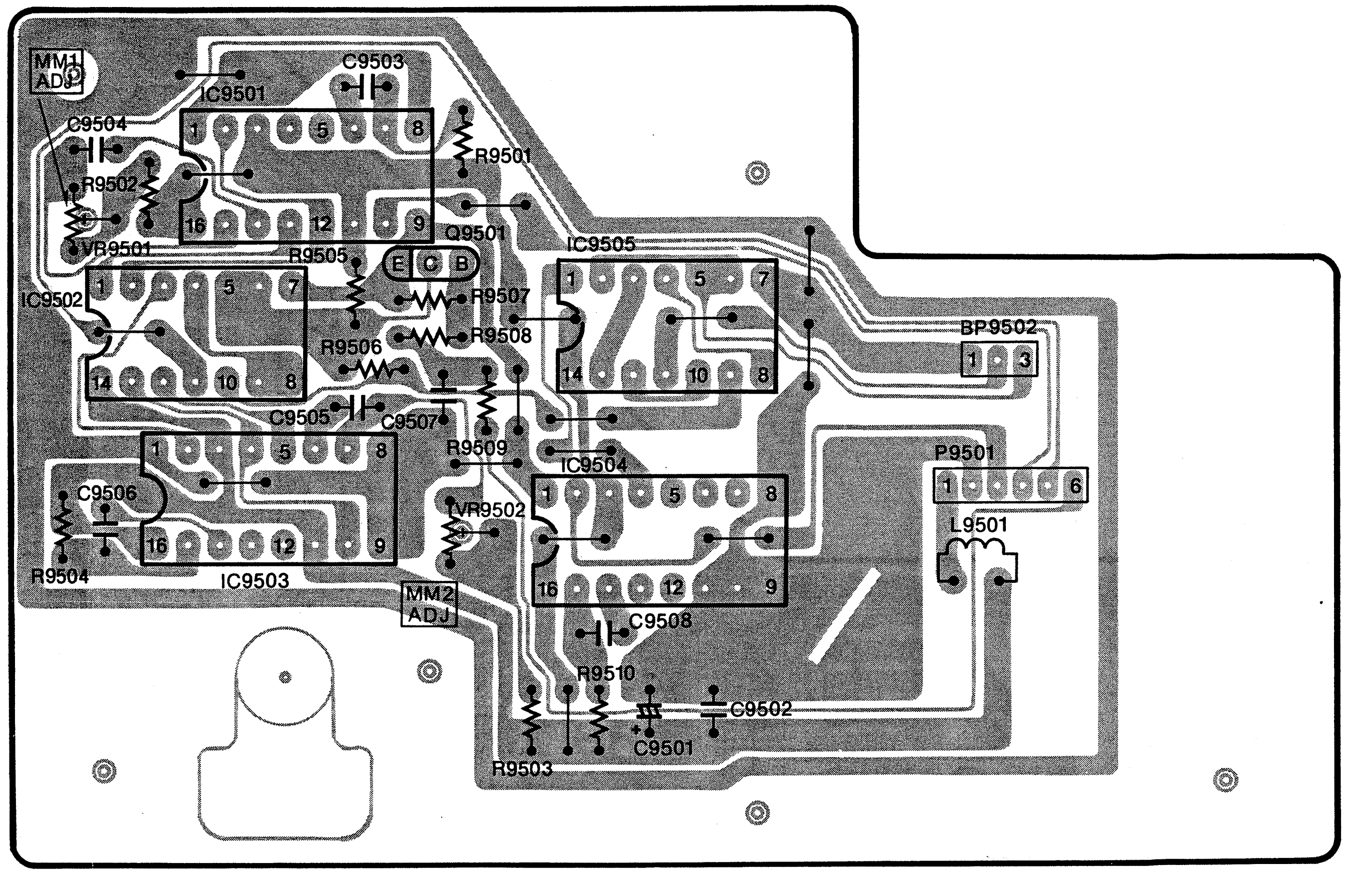
L9501 100μ
P9501(TO SUB DIGITAL)
+5V 1 BP3309-1
GND 2 BP3309-2
VLO 3 BP3309-3
HSS1 4 BP3309-4
HSI 5 BP3309-5
HSS 6 BP3309-6
IC9501
μPD74HC221AC
C9503 4700P
R9501 10K
C9501 6V47
C9502 0.1
VR9501 10K
R9502 4700
C9504 1500P
MM1 ADJ
IC9504
μPD74HC221AC
R9510 10K
C9508 0.056
R9505 10K
R9506 27K
R9508 10K
R9507 10K
C9507 0.01
Q9501
2SD636
(INV)
IC9502
μPD4001BC
or MN4001B
IC9505
μPD4001BC
or MN4001B
9503 4700
MM2 ADJ
VR9502 10K
C9505 1500P
BP9502(TO SYSTEM CTL)
EE Ⓗ 3 P6009-2
VSI 2 P6009-1
GND 1
IC9503
μPD74HC221AC
R9504 10K
C9506 4700P

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS DIGITAL STILL MODE WITH PAL COLOUR SIGNAL.

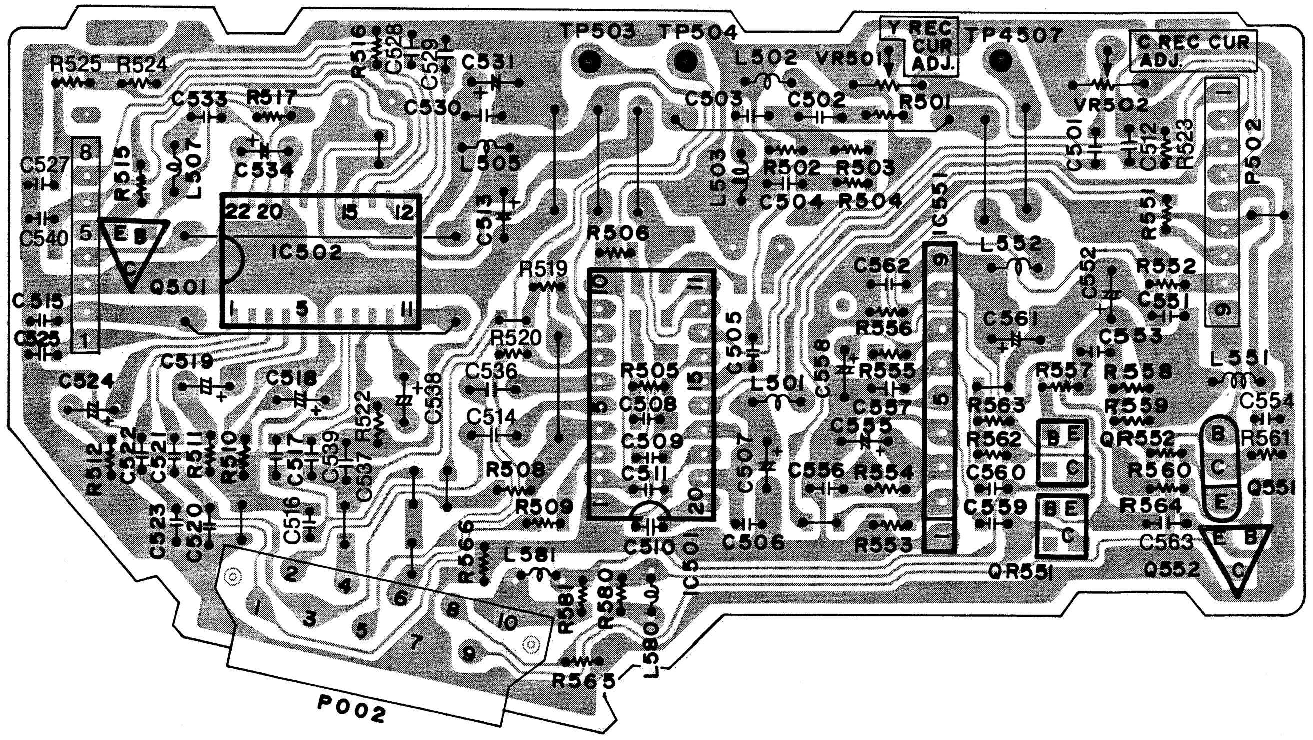
Back Page:
SUB DIGITAL Section

3-30. SYNC GENERATOR C.B.A.
(VEP03485A: NV-D80EG/EV) (VEP03485B: NV-D80B)



MM1 ADJ
C9503
IC9501
C9504
R9501
R9502
VR9501
Q9501
R9505
IC9505
IC9502
R9507
R9508
R9506
BP9502
C9505
C9507
R9509
IC9504
P9501
C9506
VR9502
L9501
R9504
IC9503
MM2 ADJ
C9508
R9510
C9502
C9501
R9503

3-31. HEAD AMP C.B.A. (VEP05106C)



TP503
TP504
TP4507
Y REC CUR ADJ.
C REC CUR ADJ.
R525
R524
C531
L502
VR501
C533
R517
C530
C503
C502
R501
VR502
C527
C534
L505
L503
R502
R503
P502
C540
IC502
C504
R504
IC551
R551
Q501
R506
R519
L552
R552
C515
C525
C562
C551
R520
R556
C561
C553
C519
C536
R505
C508
R555
R557
R558
L551
C524
C518
C514
C509
C557
R563
R559
C554
R512
R511
R510
R522
R508
C511
L501
C556
R554
R562
R552
R561
R560
C523
C520
C516
C517
C539
C537
R509
C510
C560
C559
R564
Q551
C522
C521
C538
C505
C558
C507
C506
R553
C563
Q552
R566
L581
R581
R580
L580
R565
C501
QR551
QR552
P002

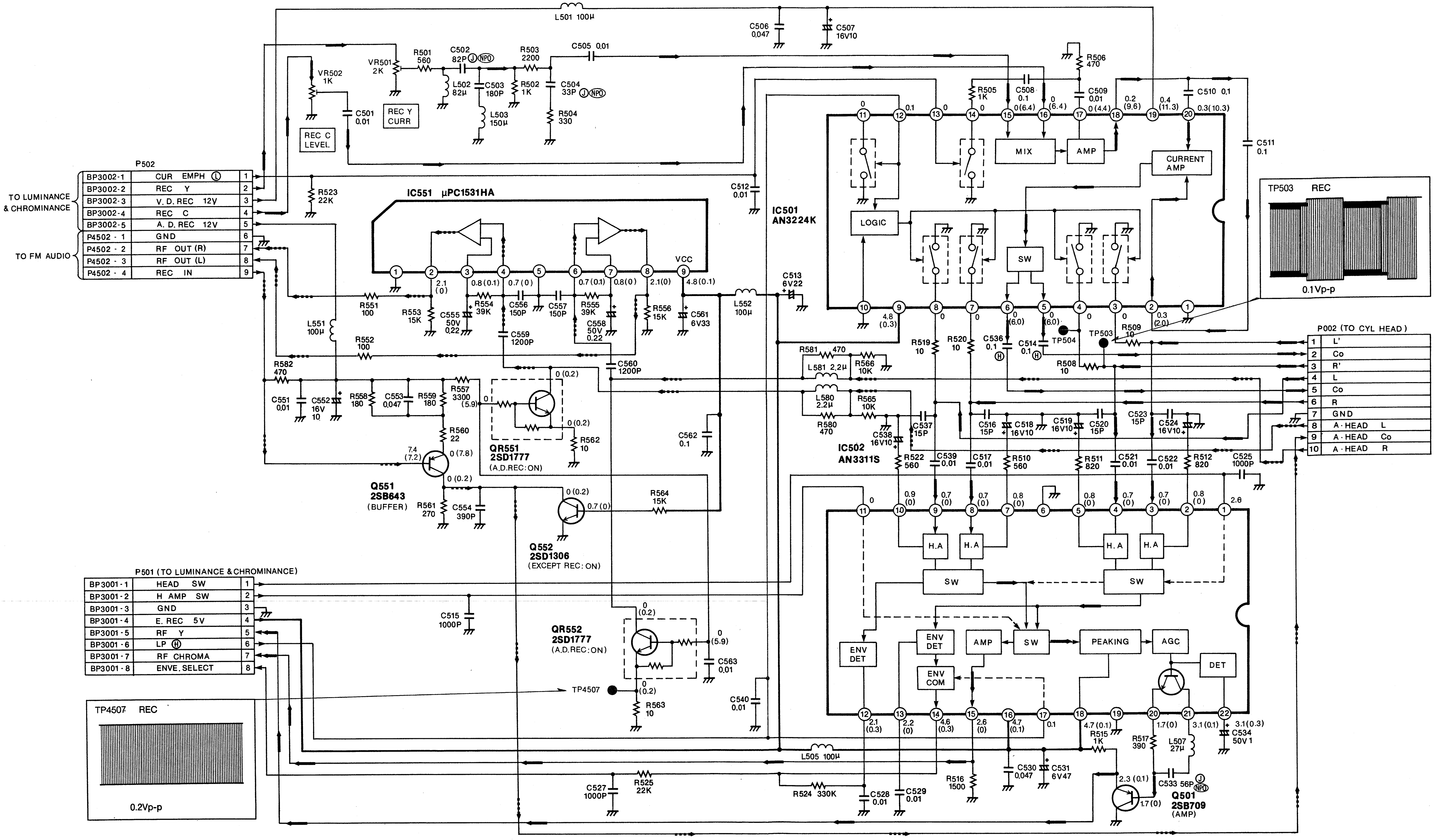
3-32. HEAD AMP SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

FM AUDIO MAIN SIGNAL PATH IN REC MODE

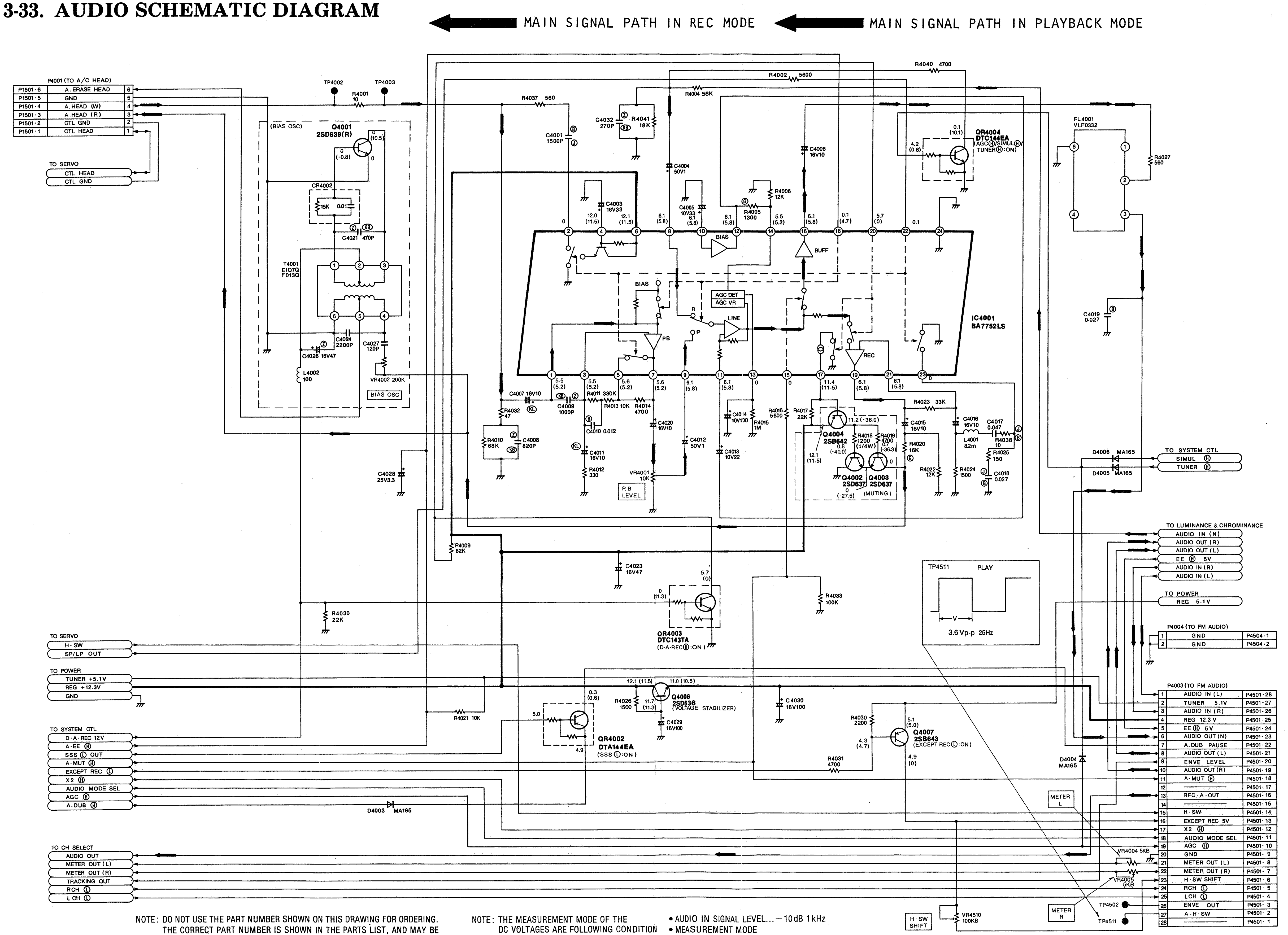
FM AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


L501 100µ
C506 0.047
C507 16V10
R501 560
C502 82P Ⓙ NPO
R503 2200
C505 0.01
VR501 2K
VR502 1K
L502 82µ
C503 180P
R502 1K
C504 33P Ⓙ NPO
L503 150µ
R504 330
C501 0.01
REC Y CURR
REC C LEVEL
R506 470
R505 1K
C508 0.1
C509 0.01
C510 0.1
C511 0.1
MIX
AMP
CURRENT AMP
LOGIC
SW
IC501 AN3224K
P502
BP3002-1 CUR EMPH Ⓛ 1
BP3002-2 REC Y 2
BP3002-3 V.D.REC 12V 3
BP3002-4 REC C 4
BP3002-5 A.D.REC 12V 5
P4502-1 GND 6
P4502-2 RF OUT (R) 7
P4502-3 RF OUT (L) 8
P4502-4 REC IN 9
TO LUMINANCE & CHROMINANCE
TO FM AUDIO
R523 22K
IC551 µPC1531HA
VCC
C512 0.01
R551 100
R553 15K
C555 50V 0.22
R554 39K
C556 150P
C557 150P
R555 39K
C558 50V 0.22
R556 15K
C561 6V33
L552 100µ
C513 6V22
C559 1200P
C560 1200P
L551 100µ
R552 100
R582 470
C551 0.01
C552 16V 10
R558 180
C553 0.047
R559 180
R557 3300
R560 22
R562 10
QR551 2SD1777 (A.D.REC:ON)
Q551 2SB643 (BUFFER)
R561 270
C554 390P
Q552 2SD1306 (EXCEPT REC:ON)
R564 15K
C562 0.1
TP503 REC
0.1Vp-p
TP504
TP503
R509 10
R508 10
R519 10
R520 10
C536 0.1 Ⓗ
C514 0.1 Ⓗ
R581 470
L581 2.2µ
R566 10K
L580 2.2µ
R565 10K
R580 470
C537 15P
C538 16V10
C516 15P
C518 16V10
C519 16V10
C520 15P
C523 15P
C524 16V10
IC502 AN3311S
R522 560
C539 0.01
C517 0.01
R510 560
R511 820
C521 0.01
C522 0.01
R512 820
C525 1000P
P002 (TO CYL HEAD)
1 L'
2 Co
3 R'
4 L
5 Co
6 R
7 GND
8 A·HEAD L
9 A·HEAD Co
10 A·HEAD R
H.A
SW
ENV DET
AMP
PEAKING
AGC
DET
ENV COM
P501 (TO LUMINANCE & CHROMINANCE)
BP3001-1 HEAD SW 1
BP3001-2 H AMP SW 2
BP3001-3 GND 3
BP3001-4 E.REC 5V 4
BP3001-5 RF Y 5
BP3001-6 LP Ⓗ 6
BP3001-7 RF CHROMA 7
BP3001-8 ENVE.SELECT 8
C515 1000P
QR552 2SD1777 (A.D.REC:ON)
C563 0.01
TP4507
R563 10
C540 0.01
TP4507 REC
0.2Vp-p
L505 100µ
C527 1000P
R525 22K
R524 330K
C528 0.01
C529 0.01
R516 1500
C530 0.047
C531 6V47
R515 1K
R517 390
L507 27µ
C534 50V1
C533 56P Ⓙ NPO
Q501 2SB709 (AMP)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

3-33. AUDIO SCHEMATIC DIAGRAM

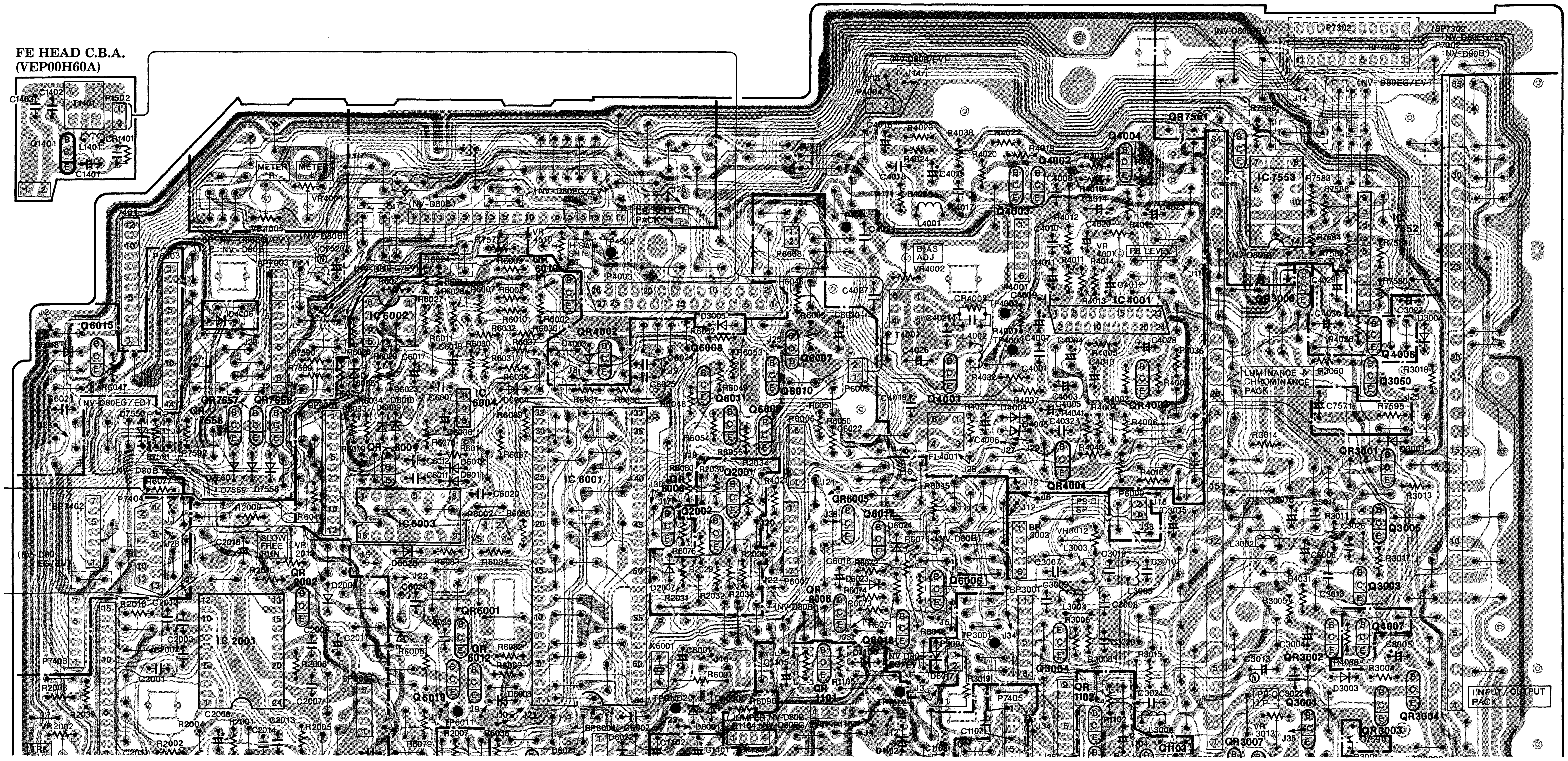

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
P4001 (TO A/C HEAD)
P1501-6 A. ERASE HEAD 6
P1501-5 GND 5
P1501-4 A. HEAD (W) 4
P1501-3 A.HEAD (R) 3
P1501-2 CTL GND 2
P1501-1 CTL HEAD 1
TO SERVO
CTL HEAD
CTL GND
TP4002
TP4003
R4001 10
(BIAS OSC)
Q4001 2SD639(R)
0 (10.5)
0 (-0.8)
0
CR4002
15K 0.01
C4021 470P
T4001 EIQ7Q F013Q
C4024 2200P
C4026 16V47
C4027 120P
L4002 100
VR4002 200K
BIAS OSC
C4028 25V3.3
R4037 560
C4001 1500P
C4032 270P
R4041 18K
R4004 56K
R4002 5600
R4040 4700
C4004 50V1
C4003 16V33
C4005 10V33
R4005 1300
R4006 12K
C4006 16V10
QR4004 DTC144EA (AGCⒽ/SIMULⒽ/ TUNERⒽ:ON)
4.2 (0.6)
0.1 (10.1)
FL4001 VLF0332
R4027 560
C4019 0.027
0
12.0 (11.5)
12.1 (11.5)
6.1 (5.8)
6.1 (5.8)
6.1 (5.8)
5.5 (5.2)
6.1 (5.8)
0.1 (4.7)
5.7 (0)
0.1
BIAS
BUFF
AGC DET
AGC VR
LINE
PB
REC
R
P
IC4001 BA7752LS
5.5 (5.2)
5.5 (5.2)
5.6 (5.2)
5.6 (5.2)
6.1 (5.8)
6.1 (5.8)
0
0
11.4 (11.5)
6.1 (5.8)
6.1 (5.8)
0
C4007 16V10
R4032 47
R4010 68K
C4008 820P
C4009 1000P
R4011 330K
R4013 10K
R4014 4700
C4010 0.012
C4011 16V10
R4012 330
C4020 16V10
VR4001 10K
P.B LEVEL
C4012 50V1
C4014 10V100
R4015 1M
C4013 10V22
R4016 5600
R4017 22K
Q4004 2SB642
11.2 (-36.0)
12.1 (11.5)
R4018 1200 (1/4W)
R4019 4700
0.8 (-40.0)
0.7 (-36.3)
Q4002 2SD637
Q4003 2SD637
0 (-27.5)
(MUTING)
R4023 33K
C4015 16V10
R4020 16K
R4022 12K
C4016 16V10
L4001 8.2m
R4024 1500
C4017 0.047
R4038 10
R4025 150
C4018 0.027
D4006 MA165
D4005 MA165
TO SYSTEM CTL
SIMUL Ⓗ
TUNER Ⓗ
R4009 82K
C4023 16V47
5.7 (0)
0 (11.3)
QR4003 DTC143TA (D-A-RECⒽ:ON)
R4030 22K
R4033 100K
TP4511 PLAY
V
3.6 Vp-p 25Hz
TO LUMINANCE & CHROMINANCE
AUDIO IN (N)
AUDIO OUT (R)
AUDIO OUT (L)
EE Ⓗ 5V
AUDIO IN (R)
AUDIO IN (L)
TO POWER
REG 5.1V
P4004 (TO FM AUDIO)
1 GND P4504-1
2 GND P4504-2
TO SERVO
H-SW
SP/LP OUT
TO POWER
TUNER +5.1V
REG +12.3V
GND
TO SYSTEM CTL
D-A-REC 12V
A-EE Ⓗ
SSS Ⓛ OUT
A-MUT Ⓗ
EXCEPT REC Ⓛ
X2 Ⓗ
AUDIO MODE SEL
AGC Ⓗ
A.DUB Ⓗ
R4021 10K
5.0
0.3 (0.6)
4.9
QR4002 DTA144EA (SSS Ⓛ:ON)
12.1 (11.5)
11.0 (10.5)
R4026 1500
11.7 (11.3)
Q4006 2SD636 (VOLTAGE STABILIZER)
C4029 16V100
C4030 16V100
R4030 2200
4.3 (4.7)
5.1 (5.0)
Q4007 2SB643 (EXCEPT RECⓁ:ON)
4.9 (0)
R4031 4700
D4003 MA165
D4004 MA165
METER L
METER R
VR4004 5KB
VR4005 5KB
TP4502
TP4511
H-SW SHIFT
VR4510 100KB
TO CH SELECT
AUDIO OUT
METER OUT (L)
METER OUT (R)
TRACKING OUT
RCH Ⓛ
L CH Ⓛ
P4003 (TO FM AUDIO)
1 AUDIO IN (L) P4501-28
2 TUNER 5.1V P4501-27
3 AUDIO IN (R) P4501-26
4 REG 12.3 V P4501-25
5 EE Ⓗ 5V P4501-24
6 AUDIO OUT (N) P4501-23
7 A.DUB PAUSE P4501-22
8 AUDIO OUT (L) P4501-21
9 ENVE LEVEL P4501-20
10 AUDIO OUT (R) P4501-19
11 A-MUT Ⓗ P4501-18
12 ——— P4501-17
13 RFC·A·OUT P4501-16
14 ——— P4501-15
15 H-SW P4501-14
16 EXCEPT REC 5V P4501-13
17 X2 Ⓗ P4501-12
18 AUDIO MODE SEL P4501-11
19 AGC Ⓗ P4501-10
20 GND P4501-9
21 METER OUT (L) P4501-8
22 METER OUT (R) P4501-7
23 H·SW SHIFT P4501-6
24 RCH Ⓛ P4501-5
25 LCH Ⓛ P4501-4
26 ENVE OUT P4501-3
27 A·H·SW P4501-2
28 ——— P4501-1

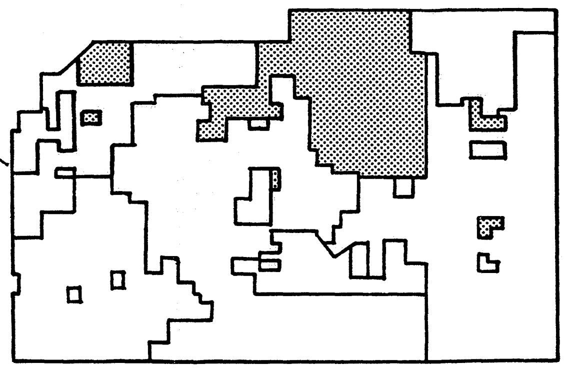
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION
- LEVEL VOLUME...CENTER POSITION
- AUDIO IN SIGNAL LEVEL...−10dB 1kHz
- MEASUREMENT MODE
  REC...BRACKETS (　　　)
  PLAY...WITHOUT BRACKETS

Back Page:
HEAD AMP Section

3-34. AUDIO Section In Main C.B.A. (VEP03410A: NV-D80EG) (VEP03410C: NV-D80B) (VEP03410B: NV-D80EV)

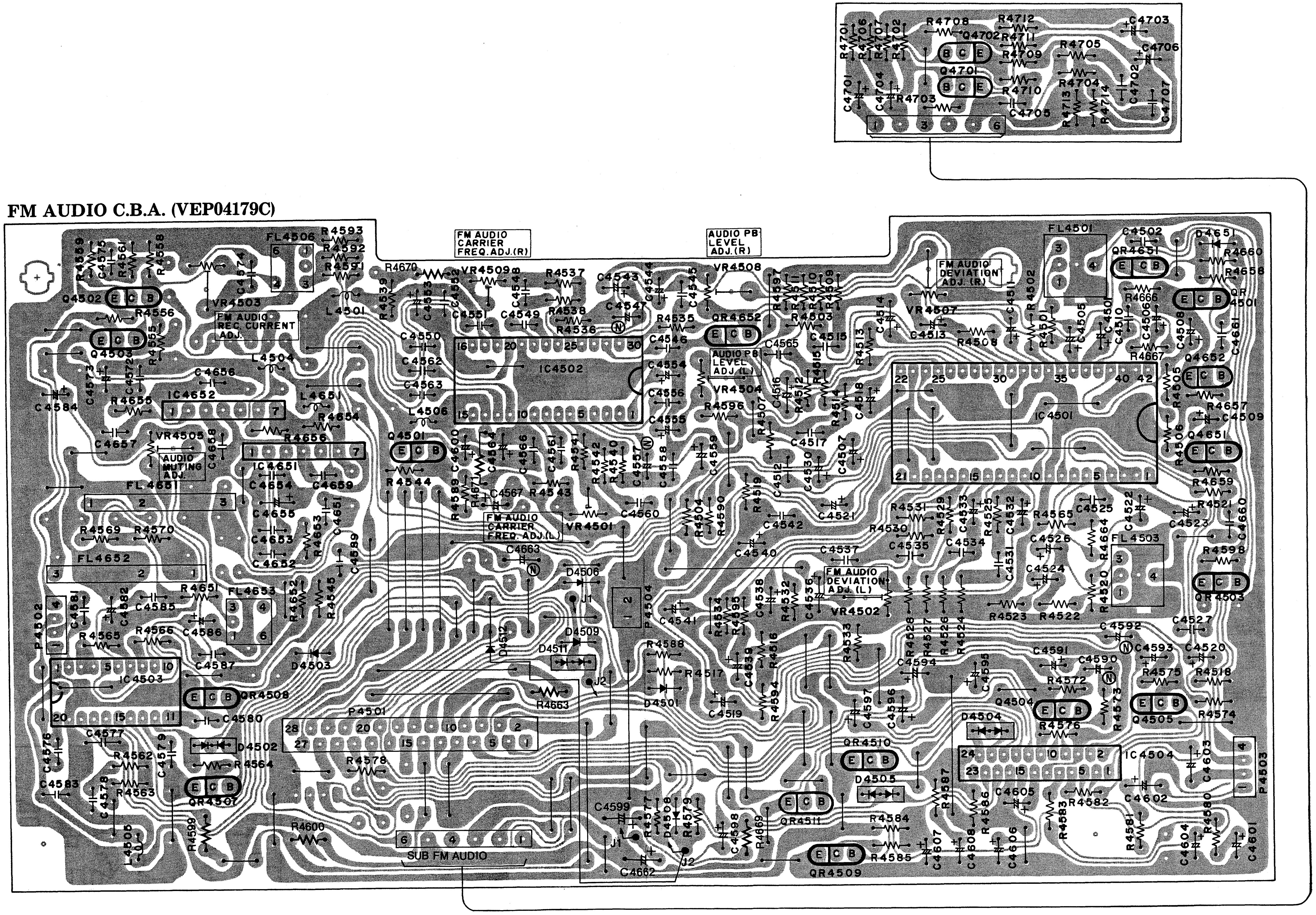

FE HEAD C.B.A.
(VEP00H60A)
T1401
P1502
Q1401
L1401
CR1401
METER R
METER L
VR4004
VR4005
CB SELECT PACK
H.SW SHIFT
TP4502
P4003
BIAS ADJ
VR4002
PB LEVEL
IC4001
Q4001
Q4002
Q4003
Q4004
QR4002
QR4004
IC6002
IC6003
IC6001
IC2001
IC7553
IC7552
QR8751
P7302
BP7302
LUMINANCE & CHROMINANCE PACK
SLOW FREE RUN
QR6001
Q6019
TPGND2
JUMPER:NV-D80B
PB SP
PB LP
Q3001
Q3003
Q3004
Q3006
QR3001
QR3002
QR3003
QR3004
INPUT/OUTPUT PACK
(NV-D80B)
(NV-D80EG/EV)
(NV-D80EG/EO)
TRK



3-35. FM AUDIO C.B.A. (VEP04179C)

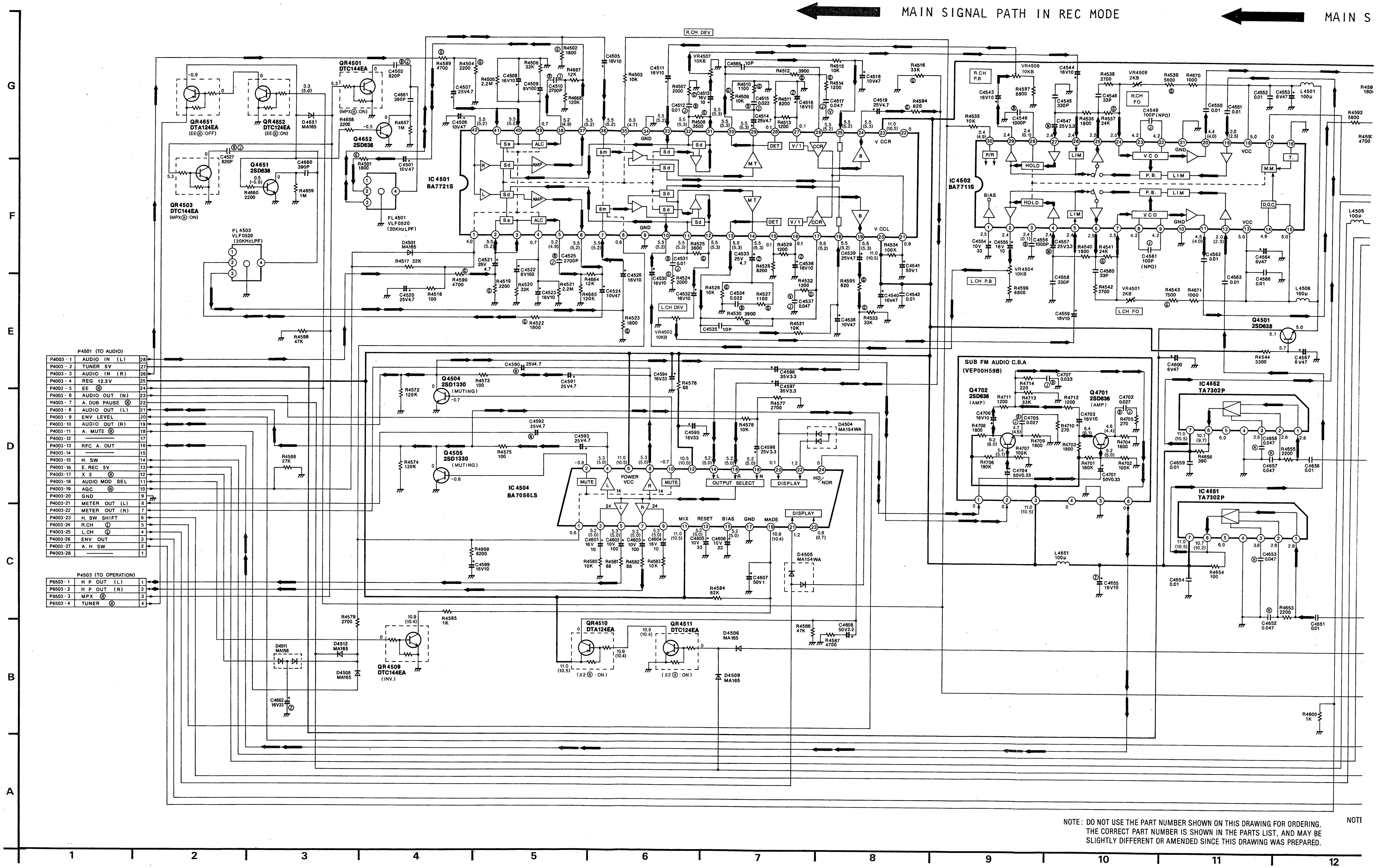
SUB FM AUDIO PACK C.B.A. (VEP00H59B)

FM AUDIO C.B.A. (VEP04179C)


R4701
R4706
R4707
R4702
R4708
R4712
C4703
Q4702
R4711
R4705
C4706
R4709
Q4701
R4704
C4702
C4701
C4704
R4703
R4710
C4705
R4713
R4714
C4707
FM AUDIO CARRIER FREQ. ADJ. (R)
AUDIO PB LEVEL ADJ. (R)
FM AUDIO DEVIATION ADJ. (R)
FM AUDIO REC CURRENT ADJ.
AUDIO PB LEVEL ADJ. (L)
AUDIO MUTING ADJ.
FM AUDIO CARRIER FREQ. ADJ. (L)
FM AUDIO DEVIATION ADJ. (L)
FL4506
FL4501
FL4651
FL4652
FL4653
FL4503
IC4501
IC4502
IC4503
IC4504
IC4651
IC4652
VR4501
VR4502
VR4503
VR4504
VR4505
VR4507
VR4508
VR4509
Q4501
Q4502
Q4503
Q4504
Q4505
Q4651
Q4652
QR4501
QR4503
QR4507
QR4508
QR4509
QR4510
QR4511
QR4651
QR4652
D4501
D4502
D4503
D4504
D4505
D4506
D4508
D4509
D4511
D4512
D4651
L4501
L4504
L4506
L4651
P4501
P4502
P4503
P4504
J1
J2
SUB FM AUDIO
E C B

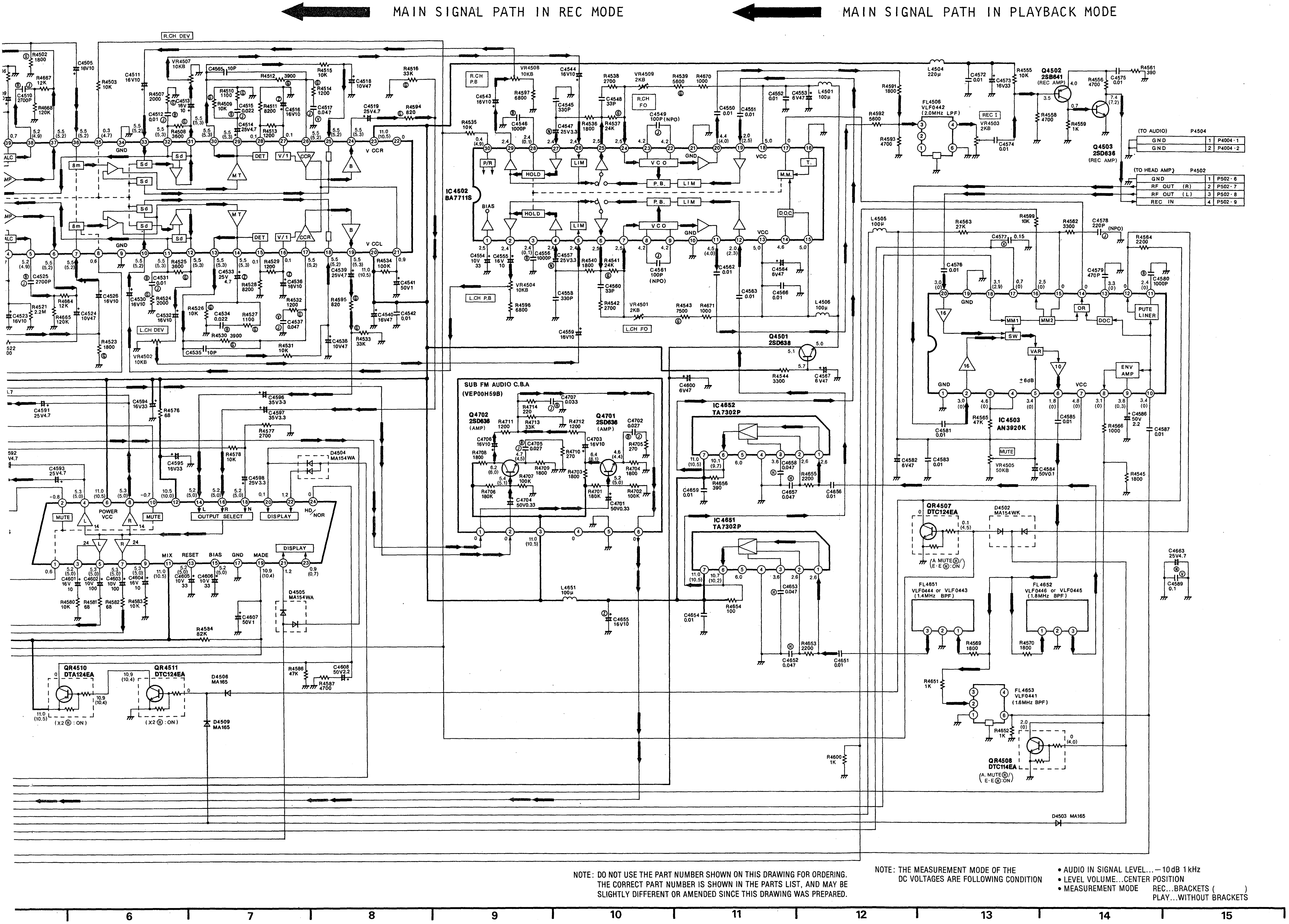
Back Page:
AUDIO Section

3-36. FM AUDIO SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN S
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
IC4501 BA7721S
IC4502 BA7711S
IC4504 BA7056LS
IC4652 TA7302P
IC4651 TA7302P
SUB FM AUDIO C.B.A (VEP00H59B)
QR4651 DTA124EA (EE Ⓗ:OFF)
QR4652 DTC124EA (EE Ⓗ:ON)
QR4501 DTC144EA
QR4503 DTC144EA (MPX Ⓗ:ON)
Q4651 2SD638
Q4652 2SD638
Q4504 2SD1330 (MUTING)
Q4505 2SD1330 (MUTING)
Q4501 2SD638
Q4701 2SD638 (AMP)
Q4702 2SD638 (AMP)
QR4509 DTC144EA (INV.)
QR4510 DTA124EA (X2 Ⓗ:ON)
QR4511 DTC124EA (X2 Ⓗ:ON)
FL4501 VLF0520 (20KHzLPF)
FL4503 VLF0520 (20KHzLPF)
R.CH DEV
L.CH DEV
R.CH P.B
L.CH P.B
R.CH FO
L.CH FO
VCO
HOLD
LIM
P.B.
M.M.
D.O.C.
MUTE
POWER VCC
OUTPUT SELECT
DISPLAY
HD/NOR
MIX
RESET
BIAS
GND
MADE
P4501 (TO AUDIO)
P4003 · 1 AUDIO IN (L) 28
P4003 · 2 TUNER 5V 27
P4003 · 3 AUDIO IN (R) 26
P4003 · 4 REG 12.3V 25
P4003 · 5 EE Ⓗ 24
P4003 · 6 AUDIO OUT (N) 23
P4003 · 7 A. DUB PAUSE Ⓗ 22
P4003 · 8 AUDIO OUT (L) 21
P4003 · 9 ENV LEVEL 20
P4003 · 10 AUDIO OUT (R) 19
P4003 · 11 A. MUTE Ⓗ 18
P4003 · 12 —— 17
P4003 · 13 RFC A. OUT 16
P4003 · 14 —— 15
P4003 · 15 H. SW 14
P4003 · 16 E. REC 5V 13
P4003 · 17 X 2 Ⓗ 12
P4003 · 18 AUDIO MOD SEL 11
P4003 · 19 AGC Ⓗ 10
P4003 · 20 GND 9
P4003 · 21 METER OUT (L) 8
P4003 · 22 METER OUT (R) 7
P4003 · 23 H. SW SHIFT 6
P4003 · 24 R.CH Ⓛ 5
P4003 · 25 L.CH Ⓛ 4
P4003 · 26 ENV OUT 3
P4003 · 27 A. H SW 2
P4003 · 28 —— 1
P4503 (TO OPERATION)
P6503 · 1 H P OUT (L) 1
P6503 · 2 H P OUT (R) 2
P6503 · 3 MPX Ⓗ 3
P6503 · 4 TUNER Ⓗ 4

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC4502 BA7711S
SUB FM AUDIO C.B.A (VEP00H59B)
Q4702 2SD636 (AMP)
Q4701 2SD636 (AMP)
IC4652 TA7302P
IC4651 TA7302P
IC4503 AN3920K
Q4501 2SD638
Q4502 2SB641 (REC AMP)
Q4503 2SD636 (REC AMP)
QR4507 DTC124EA
QR4508 DTC114EA
QR4510 DTA124EA
QR4511 DTC124EA
FL4506 VLF0442 (2.0MHz LPF)
FL4651 VLF0444 or VLF0443 (1.4MHz BPF)
FL4652 VLF0446 or VLF0445 (1.8MHz BPF)
FL4653 VLF0441 (1.6MHz BPF)
(TO AUDIO) P4504
(TO HEAD AMP) P4502
GND
RF OUT (R)
RF OUT (L)
REC IN
R.CH DEV
L.CH DEV
R.CH P.B
L.CH P.B
R.CH FO
L.CH FO
POWER VCC
OUTPUT SELECT
DISPLAY
MUTE
D4503 MA165
D4504 MA154WA
D4505 MA154WA
D4502 MA154WK
D4506 MA165
D4509 MA165
6
7
8
9
10
11
12
13
14
15

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION

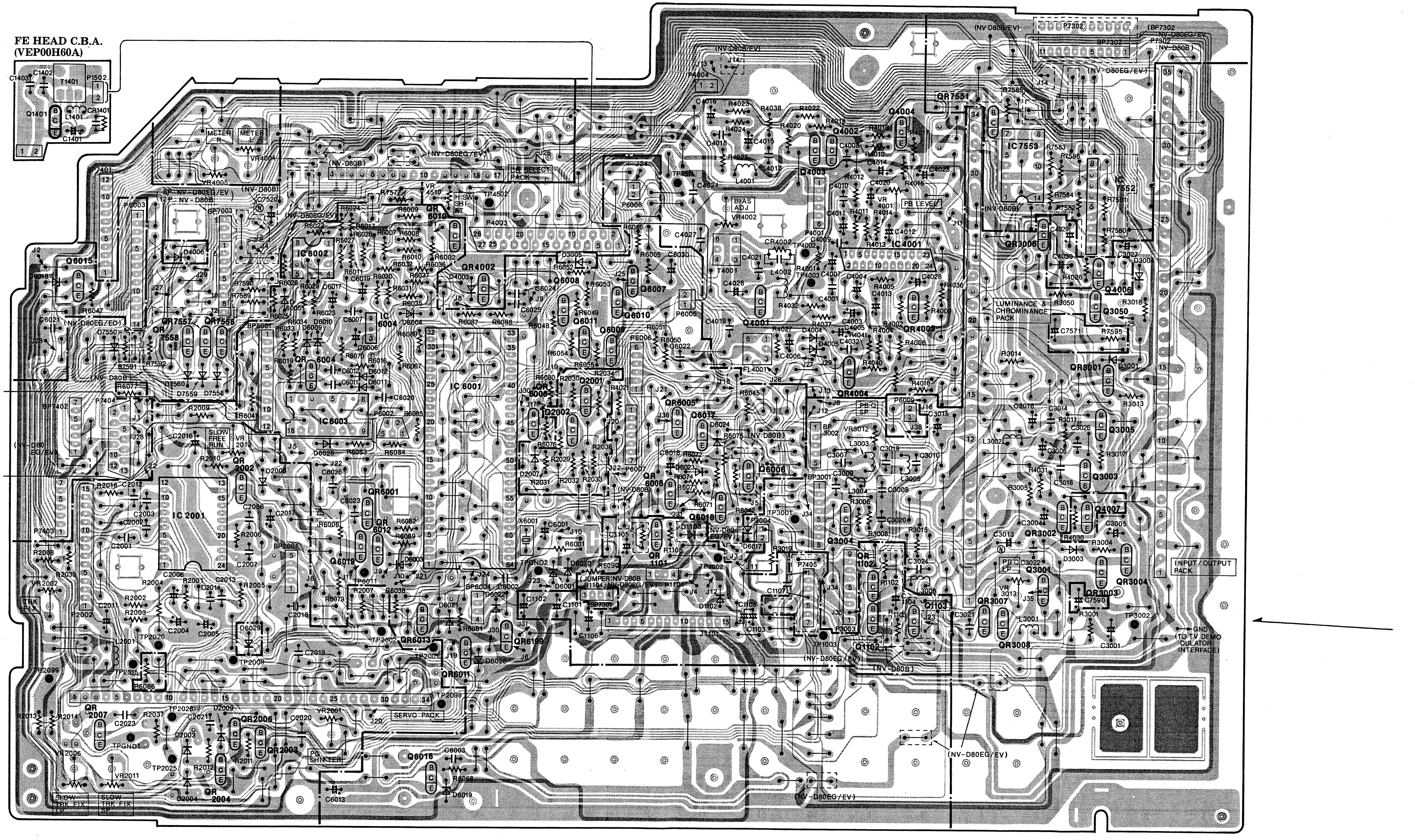
- AUDIO IN SIGNAL LEVEL...−10dB 1kHz
- LEVEL VOLUME...CENTER POSITION
- MEASUREMENT MODE REC...BRACKETS (   )
  PLAY...WITHOUT BRACKETS

FM AUDIO SCHEMATIC	
Transistor	
Q4501	E-11
Q4502	G-13
Q4503	G-14
Q4504	E-4
Q4505	D-4
Q4651	F-3
Q4652	G-3
Q4701	D-10
Q4702	D-9
Transistor & Resistor	
QR4501	G-3
QR4503	F-2
QR4507	D-13
QR4508	B-13
QR4509	B-4
QR4510	B-6
QR4511	B-6
QR4651	G-2
QR4652	G-3
Integrated Circuit	
IC4501	F-4
IC4502	F-9
IC4503	D-13
IC4504	D-5
IC4651	D-11
IC4652	E-11
Adjustment	
VR4501	E-10
VR4502	E-6
VR4503	G-13
VR4504	F-9
VR4505	D-13
VR4507	G-6
VR4508	G-9
VR4509	G-10
Connector	
P4501	E-1
P4502	F-15
P4503	C-1
P4504	G-15

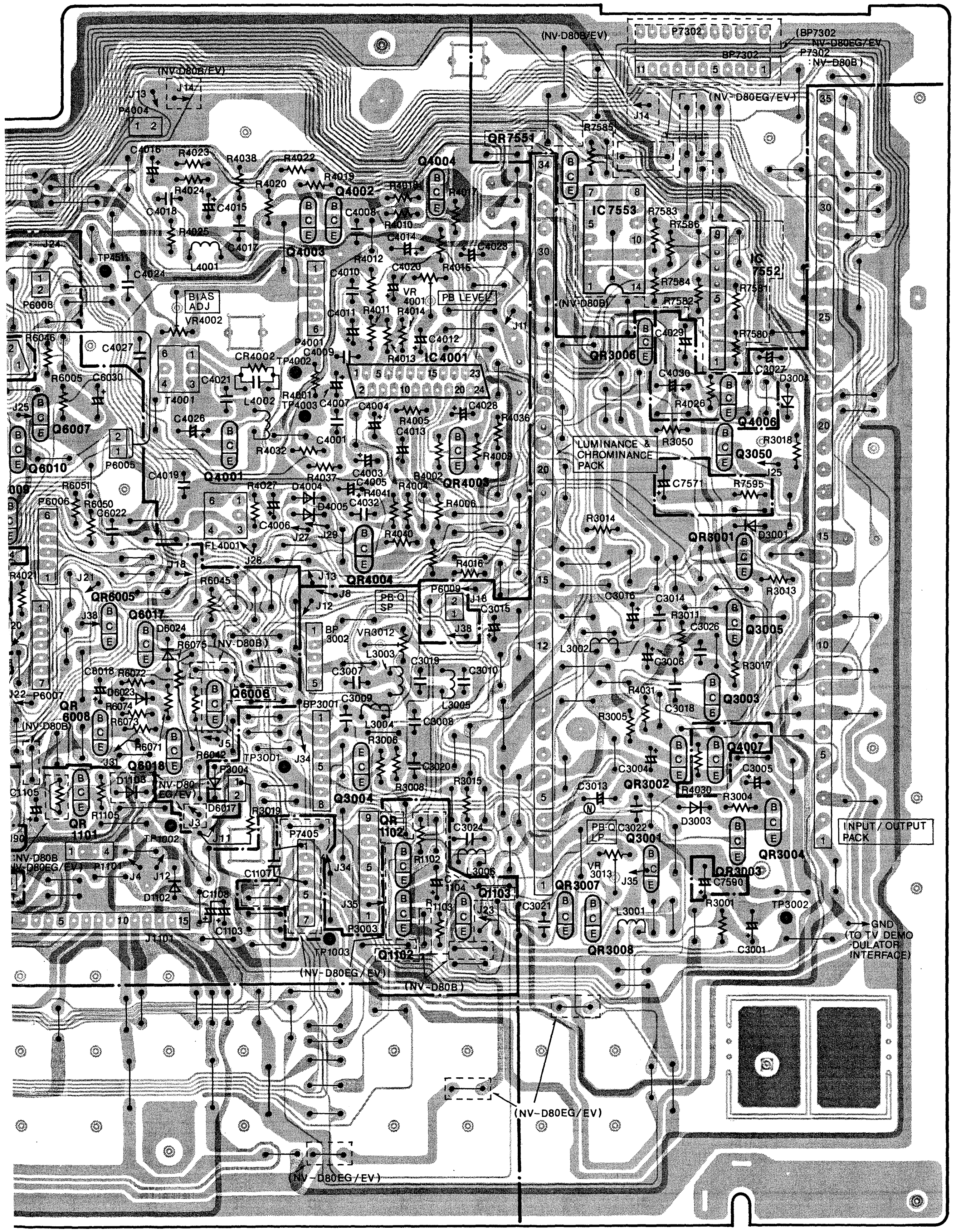
ADDRESS INFORMATION

Next Page:
CH SELECT Section

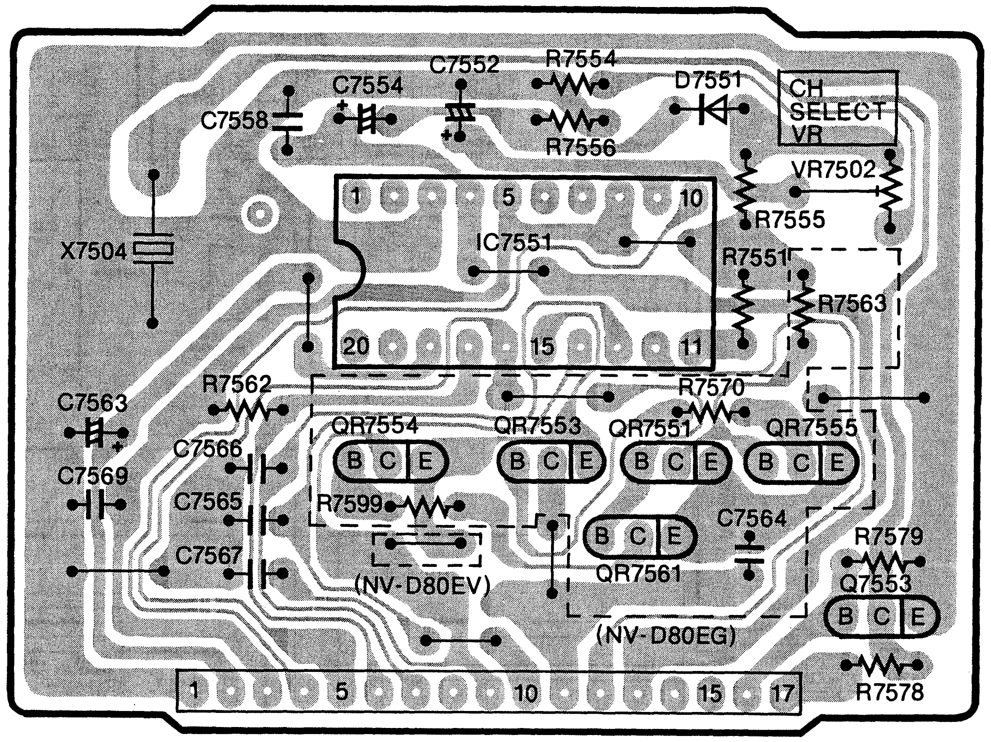
3-37. CH SELECT Section In Main C.B.A. (VEP03410A: NV-D80EG) (VEP03410B: NV-D80EV)

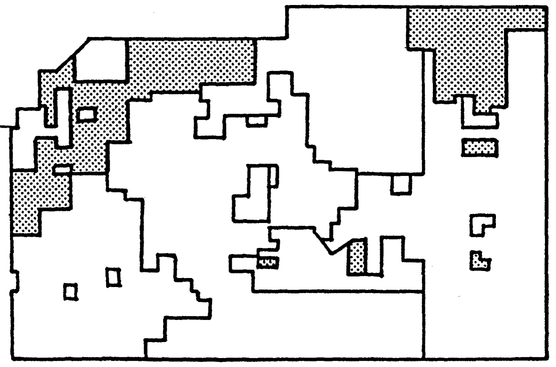

FE HEAD C.B.A.
(VEP00H60A)
METER R
METER L
CH SELECT PACK
BIAS ADJ
PB LEVEL
LUMINANCE & CHROMINANCE PACK
SLOW FREE RUN
PB-Q SP
PB-Q LP
SERVO PACK
PG SHIFTER
TRK FIX
SLOW TRK FIX LP
SLOW TRK FIX SP
INPUT/OUTPUT PACK
GND (TO TV DEMODULATOR INTERFACE)
IC 2001
IC 6001
IC 6002
IC 6003
IC 6004
IC 4001
IC 7553
IC 7552
(NV-D80B)
(NV-D80EG/EV)
JUMPER: NV-D80B
P1104: NV-D80EG/EV

03410B: NV-D80EV)

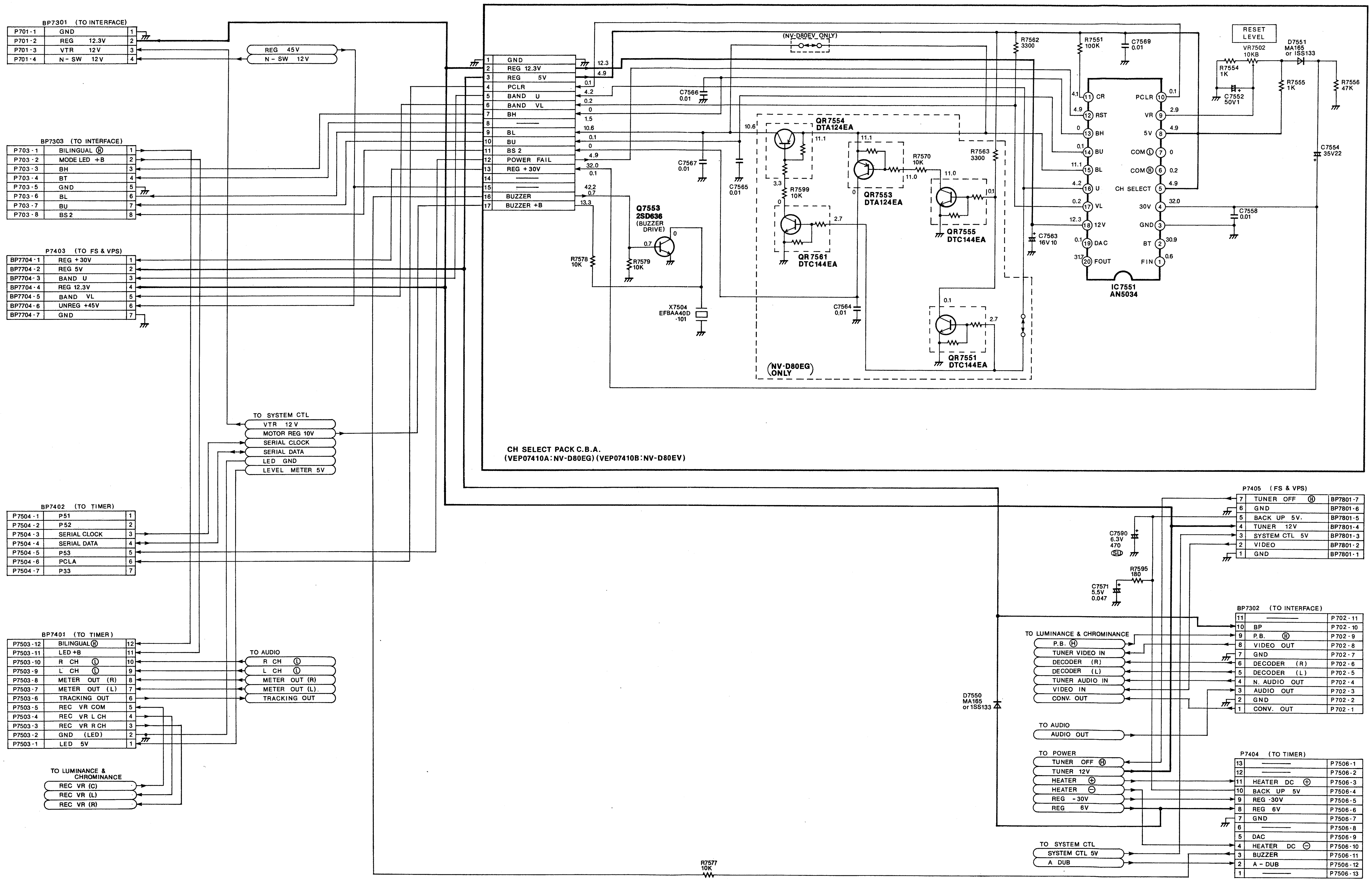

(NV-D80B/EV)
P7302
BP7302
(BP7302 NV-D80EG/EV)
P7302 :NV-D80B)
(NV-D80EG/EV)
J13
J14
P4004
QR7551
IC7553
IC 7552
Q4004
Q4002
Q4003
R4023
R4038
R4022
R4020
R4019
C4016
C4018
C4015
C4017
C4024
L4001
TP4511
BIAS ADJ
VR4002
PB LEVEL
VR 4001
IC 4001
CR4002
TP4002
TP4003
P4001
C4021
T4001
L4002
Q4001
Q4006
Q3050
QR3006
QR4004
QR4002
QR3001
QR6005
Q6017
Q6006
Q6007
Q6010
Q6018
QR 6008
LUMINANCE & CHROMINANCE PACK
PB·Q SP
BP 3002
VR3012
BP3001
TP3001
Q3004
Q3005
Q3003
Q4007
QR3002
Q3001
QR3003
QR3004
QR3007
QR3008
PB·Q LF
VR 3013
J35
TP3002
C3001
INPUT / OUTPUT PACK
GND (TO TV DEMODULATOR INTERFACE)
QR 1101
QR 1102
Q1103
Q1102
J1101
P7405
TP1003
(NV-D80B)
(NV-D80EG/EV)
(NV-D80EG/EV)
(NV-D80EG/EV)
(NV-D80EG/EV)
(NV-D80B)

3-38. CH SELECT PACK C.B.A.
(VEP07410A: NV-D80EG) (VEP07410B: NV-D80EV)


C7554
C7552
R7554
D7551
CH SELECT VR
C7558
R7556
VR7502
R7555
X7504
IC7551
1
5
10
20
15
11
R7551
R7563
C7563
R7562
R7570
QR7554
QR7553
QR7551
QR7555
B C E
C7566
C7569
C7565
R7599
C7564
QR7561
R7579
C7567
(NV-D80EV)
Q7553
(NV-D80EG)
1
5
10
15
17
R7578



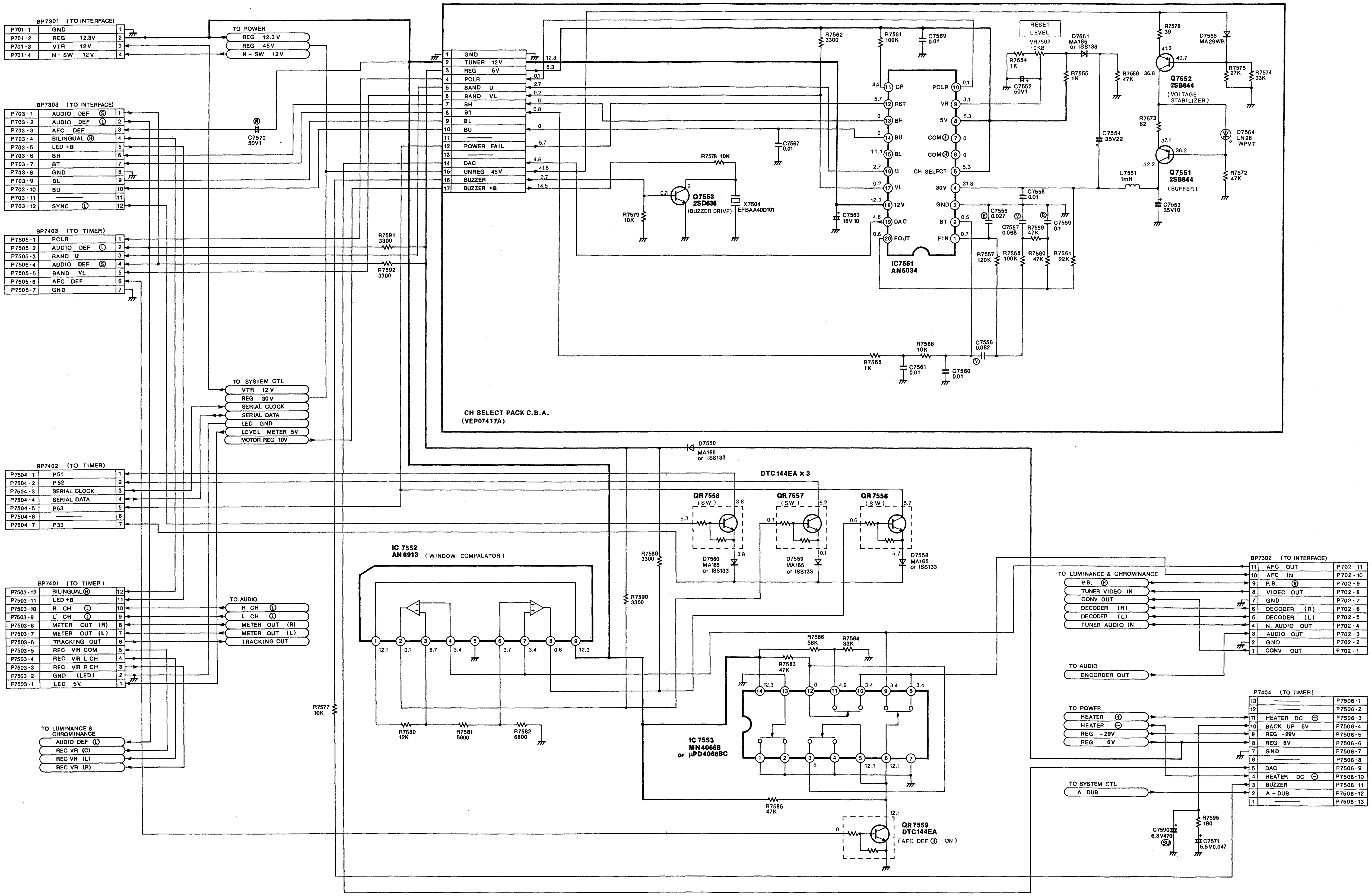
3-39. CH SELECT SCHEMATIC DIAGRAM (NV-D80EG/EV)


BP7301 (TO INTERFACE)
P701-1 GND 1
P701-2 REG 12.3V 2
P701-3 VTR 12V 3
P701-4 N-SW 12V 4
REG 45V
N-SW 12V
BP7303 (TO INTERFACE)
P703-1 BILINGUAL Ⓗ 1
P703-2 MODE LED +B 2
P703-3 BH 3
P703-4 BT 4
P703-5 GND 5
P703-6 BL 6
P703-7 BU 7
P703-8 BS2 8
P7403 (TO FS & VPS)
BP7704-1 REG +30V 1
BP7704-2 REG 5V 2
BP7704-3 BAND U 3
BP7704-4 REG 12.3V 4
BP7704-5 BAND VL 5
BP7704-6 UNREG +45V 6
BP7704-7 GND 7
1 GND
2 REG 12.3V
3 REG 5V
4 PCLR
5 BAND U
6 BAND VL
7 BH
8
9 BL
10 BU
11 BS 2
12 POWER FAIL
13 REG +30V
14
15
16 BUZZER
17 BUZZER +B
12.3
4.9
0.1
4.2
0.2
0
1.5
10.6
0.1
0
4.9
32.0
0.1
42.2
0.7
13.3
(NV-D80EV ONLY)
C7566 0.01
C7567 0.01
C7565 0.01
QR7554 DTA124EA
QR7553 DTA124EA
QR7555 DTC144EA
QR7561 DTC144EA
QR7551 DTC144EA
R7599 10K
R7570 10K
R7563 3300
R7562 3300
R7551 100K
C7569 0.01
C7563 16V 10
C7564 0.01
Q7553 2SD636 (BUZZER DRIVE)
R7578 10K
R7579 10K
X7504 EFBAA40D -101
(NV-D80EG) ONLY
RESET LEVEL
VR7502 10KB
D7551 MA165 or 1SS133
R7554 1K
C7552 50V1
R7555 1K
R7556 47K
C7554 35V22
C7558 0.01
11 CR
12 RST
13 BH
14 BU
15 BL
16 U
17 VL
18 12V
19 DAC
20 FOUT
10 PCLR
9 VR
8 5V
7 COM Ⓛ
6 COM Ⓗ
5 CH SELECT
4 30V
3 GND
2 BT
1 FIN
IC7551 AN5034
CH SELECT PACK C.B.A.
(VEP07410A:NV-D80EG)(VEP07410B:NV-D80EV)
TO SYSTEM CTL
VTR 12V
MOTOR REG 10V
SERIAL CLOCK
SERIAL DATA
LED GND
LEVEL METER 5V
BP7402 (TO TIMER)
P7504-1 P51 1
P7504-2 P52 2
P7504-3 SERIAL CLOCK 3
P7504-4 SERIAL DATA 4
P7504-5 P53 5
P7504-6 PCLA 6
P7504-7 P33 7
BP7401 (TO TIMER)
P7503-12 BILINGUAL Ⓗ 12
P7503-11 LED +B 11
P7503-10 R CH Ⓛ 10
P7503-9 L CH Ⓛ 9
P7503-8 METER OUT (R) 8
P7503-7 METER OUT (L) 7
P7503-6 TRACKING OUT 6
P7503-5 REC VR COM 5
P7503-4 REC VR L CH 4
P7503-3 REC VR R CH 3
P7503-2 GND (LED) 2
P7503-1 LED 5V 1
TO AUDIO
R CH Ⓛ
L CH Ⓛ
METER OUT (R)
METER OUT (L)
TRACKING OUT
TO LUMINANCE & CHROMINANCE
REC VR (C)
REC VR (L)
REC VR (R)
R7577 10K
P7405 (FS & VPS)
7 TUNER OFF Ⓗ BP7801-7
6 GND BP7801-6
5 BACK UP 5V. BP7801-5
4 TUNER 12V BP7801-4
3 SYSTEM CTL 5V BP7801-3
2 VIDEO BP7801-2
1 GND BP7801-1
C7590 6.3V 470
R7595 180
C7571 5.5V 0.047
BP7302 (TO INTERFACE)
11 P702-11
10 BP P702-10
9 P.B. Ⓗ P702-9
8 VIDEO OUT P702-8
7 GND P702-7
6 DECODER (R) P702-6
5 DECODER (L) P702-5
4 N. AUDIO OUT P702-4
3 AUDIO OUT P702-3
2 GND P702-2
1 CONV. OUT P702-1
TO LUMINANCE & CHROMINANCE
P.B. Ⓗ
TUNER VIDEO IN
DECODER (R)
DECODER (L)
TUNER AUDIO IN
VIDEO IN
CONV. OUT
D7550 MA165 or 1SS133
TO AUDIO
AUDIO OUT
TO POWER
TUNER OFF Ⓗ
TUNER 12V
HEATER ⊕
HEATER ⊖
REG -30V
REG 6V
TO SYSTEM CTL
SYSTEM CTL 5V
A DUB
P7404 (TO TIMER)
13 P7506-1
12 P7506-2
11 HEATER DC ⊕ P7506-3
10 BACK UP 5V P7506-4
9 REG -30V P7506-5
8 REG 6V P7506-6
7 GND P7506-7
6 P7506-8
5 DAC P7506-9
4 HEATER DC ⊖ P7506-10
3 BUZZER P7506-11
2 A-DUB P7506-12
1 P7506-13

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-40. CH SELECT SCHEMATIC DIAGRAM (NV-D80B)

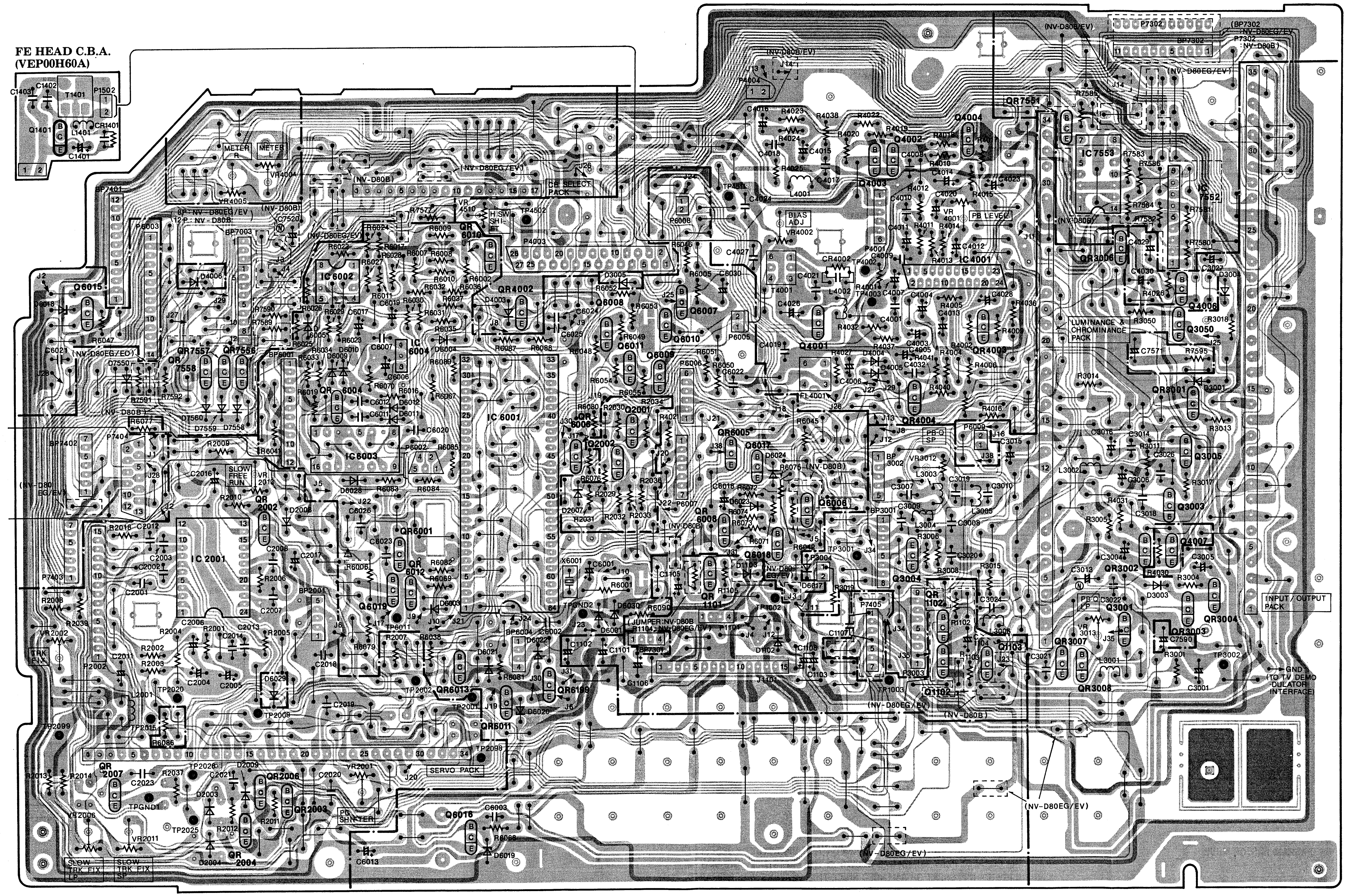

BP7301 (TO INTERFACE)
P701-1 GND 1
P701-2 REG 12.3V 2
P701-3 VTR 12V 3
P701-4 N-SW 12V 4
BP7303 (TO INTERFACE)
P703-1 AUDIO DEF Ⓢ 1
P703-2 AUDIO DEF Ⓛ 2
P703-3 AFC DEF 3
P703-4 BILINGUAL Ⓗ 4
P703-5 LED +B 5
P703-6 BH 6
P703-7 BT 7
P703-8 GND 8
P703-9 BL 9
P703-10 BU 10
P703-11 11
P703-12 SYNC Ⓛ 12
BP7403 (TO TIMER)
P7505-1 PCLR 1
P7505-2 AUDIO DEF Ⓛ 2
P7505-3 BAND U 3
P7505-4 AUDIO DEF Ⓢ 4
P7505-5 BAND VL 5
P7505-6 AFC DEF 6
P7505-7 GND 7
BP7402 (TO TIMER)
P7504-1 P51 1
P7504-2 P52 2
P7504-3 SERIAL CLOCK 3
P7504-4 SERIAL DATA 4
P7504-5 P53 5
P7504-6 6
P7504-7 P33 7
BP7401 (TO TIMER)
P7503-12 BILINGUAL Ⓗ 12
P7503-11 LED +B 11
P7503-10 R CH Ⓛ 10
P7503-9 L CH Ⓛ 9
P7503-8 METER OUT (R) 8
P7503-7 METER OUT (L) 7
P7503-6 TRACKING OUT 6
P7503-5 REC VR COM 5
P7503-4 REC VR L CH 4
P7503-3 REC VR R CH 3
P7503-2 GND (LED) 2
P7503-1 LED 5V 1
TO LUMINANCE & CHROMINANCE
AUDIO DEF Ⓛ
REC VR (C)
REC VR (L)
REC VR (R)
TO POWER
REG 12.3V
REG 45V
N-SW 12V
C7570 50V1
TO SYSTEM CTL
VTR 12V
REG 30V
SERIAL CLOCK
SERIAL DATA
LED GND
LEVEL METER 5V
MOTOR REG 10V
R7591 3300
R7592 3300
TO AUDIO
R CH Ⓛ
L CH Ⓛ
METER OUT (R)
METER OUT (L)
TRACKING OUT
R7577 10K
1 GND
2 TUNER 12V
3 REG 5V
4 PCLR
5 BAND U
6 BAND VL
7 BH
8 BT
9 BL
10 BU
11
12 POWER FAIL
13
14 DAC
15 UNREG 45V
16 BUZZER
17 BUZZER +B
12.3
5.3
0.1
2.7
0.2
0
0.8
0
5.7
4.6
41.8
0.7
14.5
R7578 10K
Q7553 2SD636 (BUZZER DRIVE)
X7504 EFBAA40D101
R7579 10K
C7567 0.01
R7562 3300
R7551 100K
C7569 0.01
C7563 16V10
IC7551 AN5034
CR
RST
BH
BU
BL
U
VL
12V
DAC
FOUT
PCLR
VR
5V
COM Ⓛ
COM Ⓗ
CH SELECT
30V
GND
BT
FIN
RESET LEVEL
VR7502 10KB
R7554 1K
C7552 50V1
D7551 MA165 or ISS133
R7555 1K
R7556 47K
C7554 35V22
C7555 0.027
C7557 0.068
R7559 47K
C7559 0.1
C7558 0.01
R7557 120K
R7558 100K
R7560 47K
R7561 22K
R7576 39
D7555 MA29WB
Q7552 2SB644 (VOLTAGE STABILIZER)
R7575 27K
R7574 33K
R7573 82
D7554 LN28 WPVT
L7551 1mH
Q7551 2SB644 (BUFFER)
R7572 47K
C7553 35V10
41.3
40.7
36.8
37.1
36.3
32.2
R7568 10K
C7556 0.082
R7565 1K
C7561 0.01
C7560 0.01
CH SELECT PACK C.B.A. (VEP07417A)
D7550 MA165 or ISS133
DTC144EA x 3
QR7558 (SW)
QR7557 (SW)
QR7556 (SW)
D7560 MA165 or ISS133
D7559 MA165 or ISS133
D7558 MA165 or ISS133
R7589 3300
R7590 3300
IC7552 AN6913 (WINDOW COMPALATOR)
R7580 12K
R7581 5600
R7582 6800
R7586 56K
R7584 33K
R7583 47K
IC7553 MN4066B or μPD4066BC
R7585 47K
QR7559 DTC144EA (AFC DEF Ⓗ : ON)
BP7302 (TO INTERFACE)
11 AFC OUT P702-11
10 AFC IN P702-10
9 P.B. Ⓗ P702-9
8 VIDEO OUT P702-8
7 GND P702-7
6 DECODER (R) P702-6
5 DECODER (L) P702-5
4 N. AUDIO OUT P702-4
3 AUDIO OUT P702-3
2 GND P702-2
1 CONV OUT P702-1
TO LUMINANCE & CHROMINANCE
P.B. Ⓗ
TUNER VIDEO IN
CONV OUT
DECODER (R)
DECODER (L)
TUNER AUDIO IN
TO AUDIO
ENCORDER OUT
P7404 (TO TIMER)
13 P7506-1
12 P7506-2
11 HEATER DC ⊕ P7506-3
10 BACK UP 5V P7506-4
9 REG -29V P7506-5
8 REG 6V P7506-6
7 GND P7506-7
6 P7506-8
5 DAC P7506-9
4 HEATER DC ⊖ P7506-10
3 BUZZER P7506-11
2 A-DUB P7506-12
1 P7506-13
TO POWER
HEATER ⊕
HEATER ⊖
REG -29V
REG 6V
TO SYSTEM CTL
A DUB
C7590 6.3V470
R7595 180
C7571 5.5V0.047

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

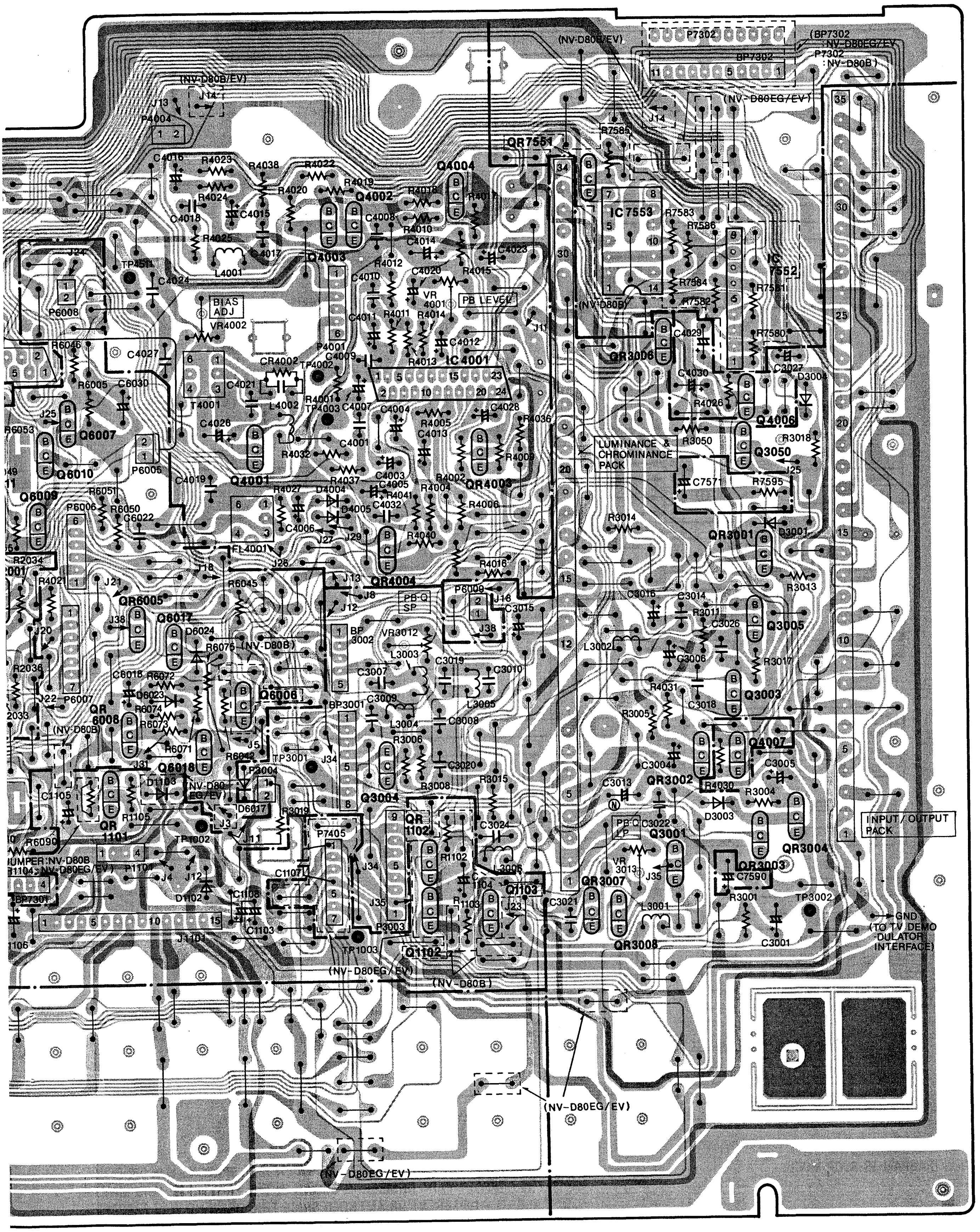
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

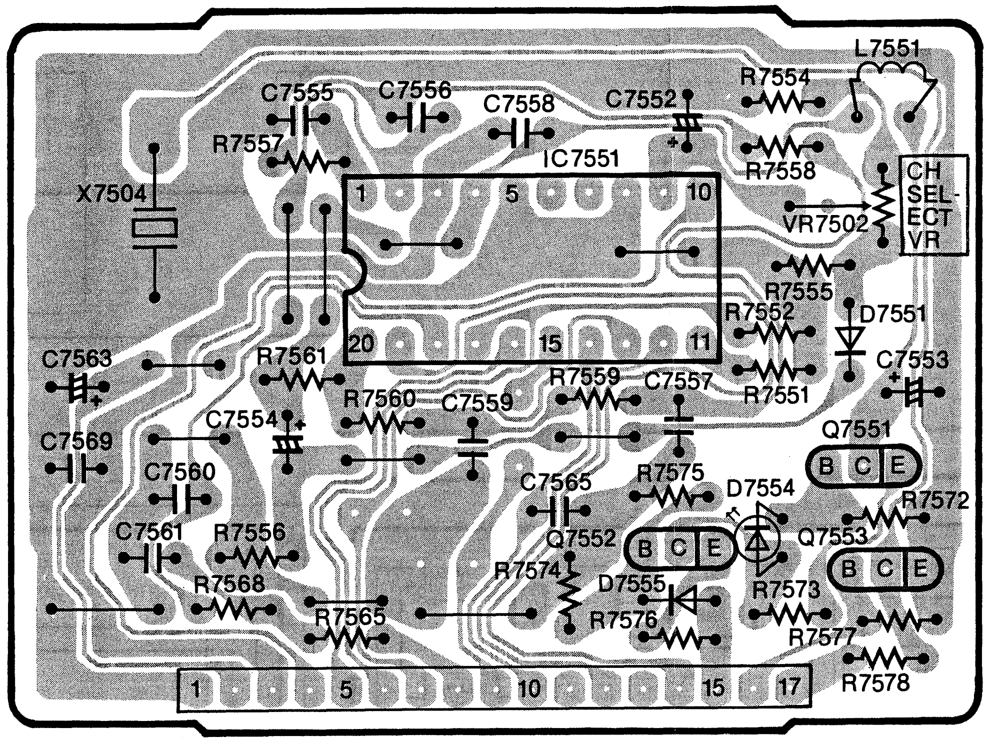
Back Page:
CH SELECT Section

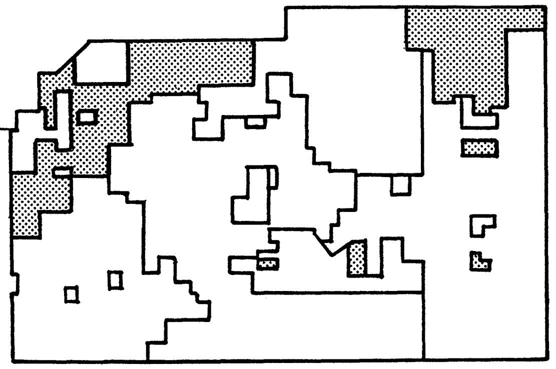
3-41. CH SELECT Section In Main C.B.A. (VEP03410C: NV-D80B)


FE HEAD C.B.A.
(VEP00H60A)
METER R
METER L
CH SELECT PACK
H.SW SHIFT
BIAS ADJ
PB LEVEL
LUMINANCE & CHROMINANCE PACK
INPUT/OUTPUT PACK
SLOW FREE RUN
PB-Q SP
PB-Q LP
TRK FIX
SLOW TRK FIX LP
SLOW TRK FIX SP
SERVO PACK
PG SHIFTER
JUMPER: NV-D80B
GND (TO TV DEMODULATOR INTERFACE)
(NV-D80B)
(NV-D80EG/EV)
IC 2001
IC 6001
IC 6002
IC 6003
IC 6004
IC 4001
IC 7553
P7302
BP7302
P7302: NV-D80B

3-42. CH SELECT PACK C.B.A. (VEP07417A: NV-D80B)

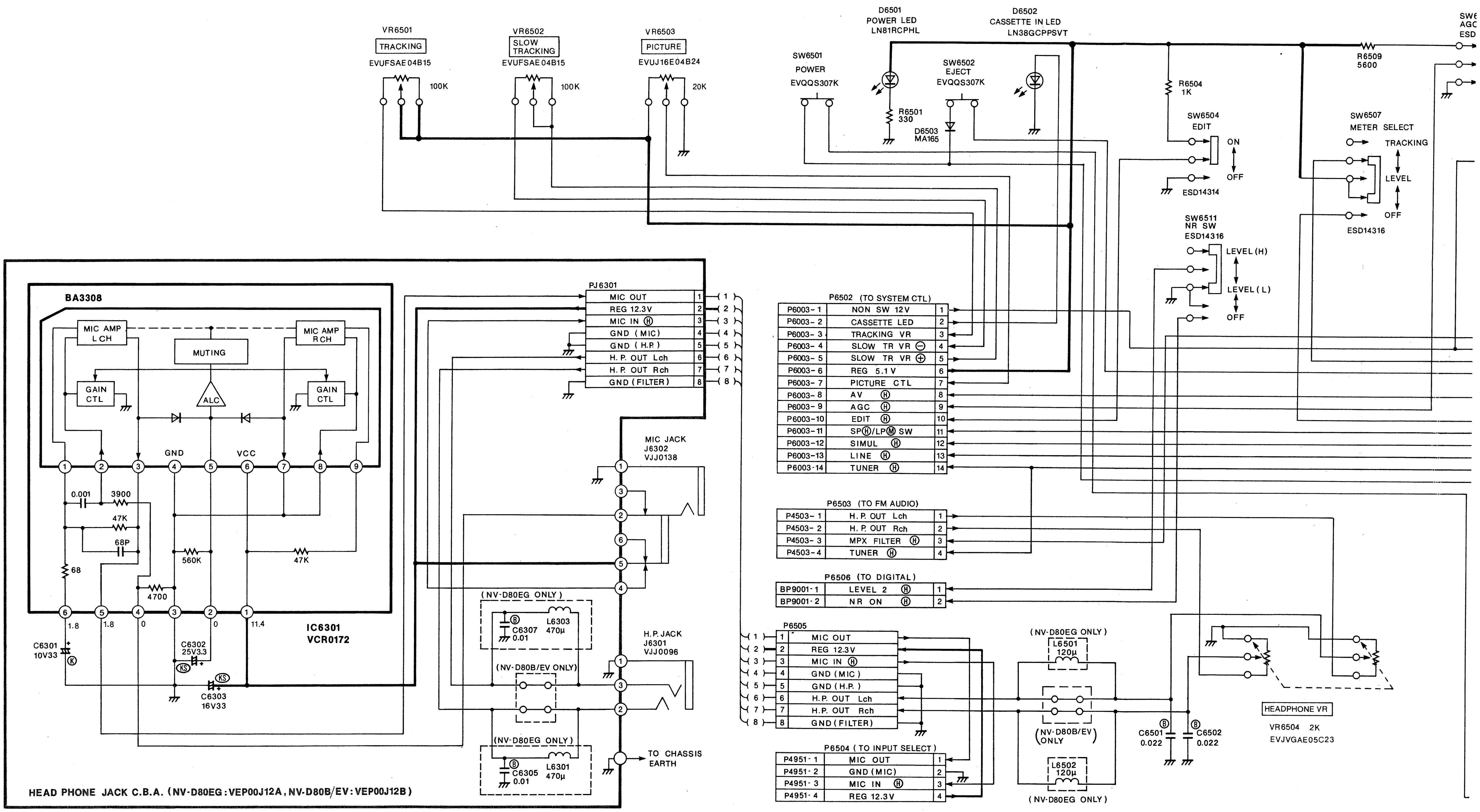

(NV-D80B/EV)
P7302
BP7302
(BP7302 : NV-D80EG/EV)
(P7302 : NV-D80B)
(NV-D80EG/EV)
QR7581
IC 7553
IC 7552
Q4004
Q4002
Q4003
IC 4001
BIAS ADJ
VR4002
PB LEVEL
VR 4001
Q6007
Q6010
Q6009
Q4001
QR4003
QR4004
LUMINANCE & CHROMINANCE PACK
QR3006
Q4006
Q3050
QR3001
Q3005
Q3003
Q4007
QR3002
Q3001
QR3003
Q3004
QR3007
QR3008
Q3004
QR 1102
Q1103
Q1102
QR 1101
Q6018
Q6006
QR 6008
QR6005
Q6017
INPUT / OUTPUT PACK
GND (TO TV DEMODULATOR INTERFACE)
TP3002
TP1003
JUMPER: NV-D80B
(NV-D80EG/EV)
(NV-D80B)


L7551
C7555
C7556
C7558
C7552
R7554
R7557
IC7551
R7558
CH SEL-ECT VR
X7504
VR7502
R7555
R7552
D7551
C7563
R7561
R7559
C7557
C7553
R7560
C7559
R7551
C7554
C7569
Q7551
C7560
C7565
R7575
D7554
R7572
C7561
R7556
Q7552
Q7553
R7574
D7555
R7568
R7573
R7565
R7576
R7577
R7578
B C E
1
5
10
11
15
20
17



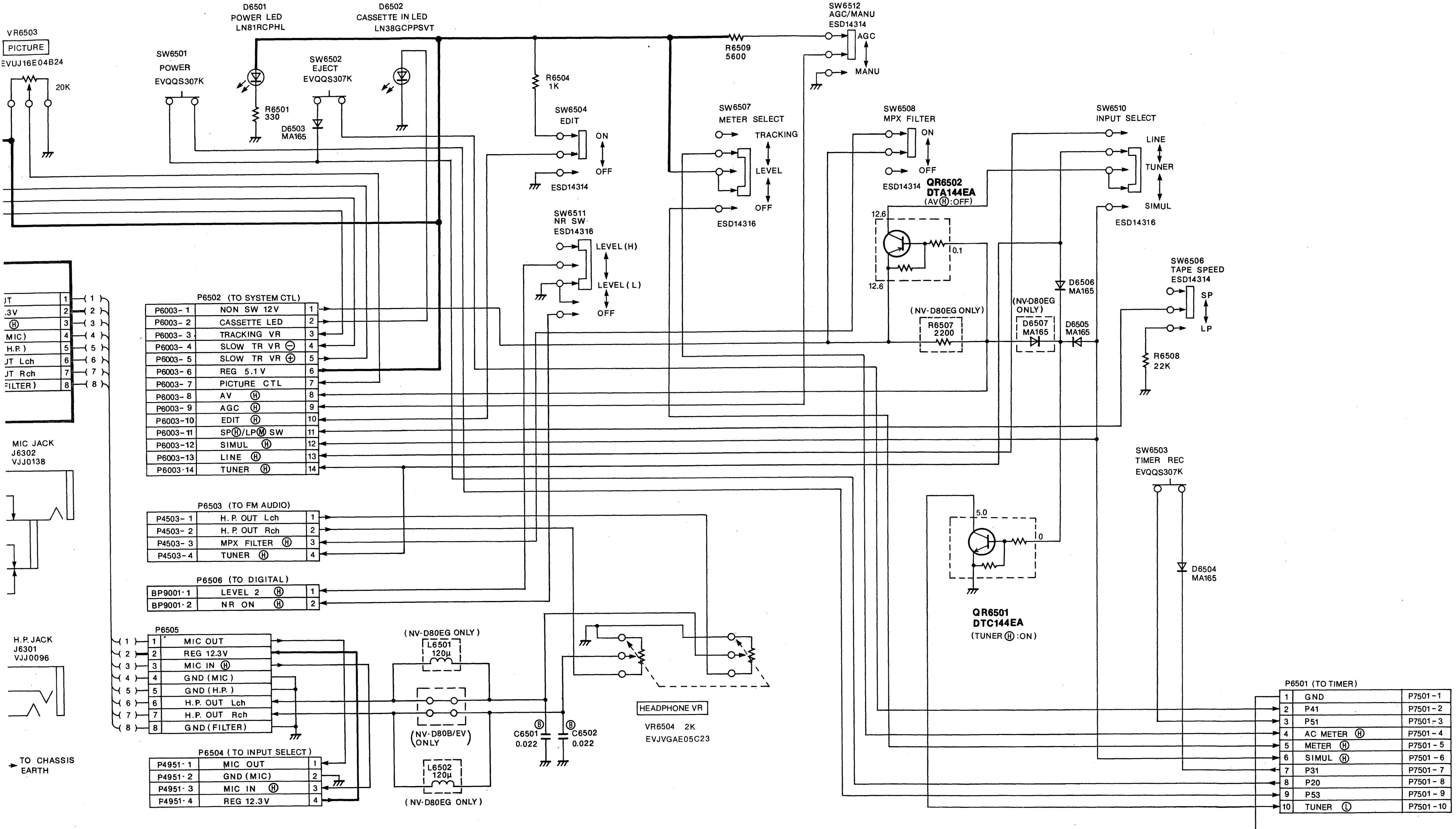
Next Page:
OPERATION Section

3-43. OPERATION SCHEMATIC DIAGRAM


VR6501
TRACKING
EVUFSAE04B15
100K
VR6502
SLOW TRACKING
EVUFSAE04B15
100K
VR6503
PICTURE
EVUJ16E04B24
20K
SW6501
POWER
EVQQS307K
D6501
POWER LED
LN81RCPHL
R6501
330
SW6502
EJECT
EVQQS307K
D6503
MA165
D6502
CASSETTE IN LED
LN38GCPPSVT
R6504
1K
SW6504
EDIT
ON
OFF
ESD14314
SW6511
NR SW
ESD14316
LEVEL (H)
LEVEL (L)
OFF
R6509
5600
SW6
AGC
ESD
SW6507
METER SELECT
TRACKING
LEVEL
OFF
ESD14316
BA3308
MIC AMP L CH
MIC AMP R CH
MUTING
GAIN CTL
GAIN CTL
ALC
GND
VCC
0.001
3900
47K
68P
68
560K
47K
4700
1.8
1.8
0
0
11.4
C6301 10V33
C6302 25V3.3
C6303 16V33
IC6301
VCR0172
PJ6301
MIC OUT 1
REG 12.3V 2
MIC IN Ⓗ 3
GND (MIC) 4
GND (H.P.) 5
H.P. OUT Lch 6
H.P. OUT Rch 7
GND (FILTER) 8
MIC JACK
J6302
VJJ0138
H.P. JACK
J6301
VJJ0096
(NV-D80EG ONLY)
C6307 0.01
L6303 470µ
(NV-D80B/EV ONLY)
(NV-D80EG ONLY)
C6305 0.01
L6301 470µ
TO CHASSIS EARTH
HEAD PHONE JACK C.B.A. (NV-D80EG:VEP00J12A, NV-D80B/EV:VEP00J12B)
P6502 (TO SYSTEM CTL)
P6003-1 NON SW 12V 1
P6003-2 CASSETTE LED 2
P6003-3 TRACKING VR 3
P6003-4 SLOW TR VR ⊖ 4
P6003-5 SLOW TR VR ⊕ 5
P6003-6 REG 5.1V 6
P6003-7 PICTURE CTL 7
P6003-8 AV Ⓗ 8
P6003-9 AGC Ⓗ 9
P6003-10 EDIT Ⓗ 10
P6003-11 SPⒽ/LPⓂ SW 11
P6003-12 SIMUL Ⓗ 12
P6003-13 LINE Ⓗ 13
P6003-14 TUNER Ⓗ 14
P6503 (TO FM AUDIO)
P4503-1 H.P. OUT Lch 1
P4503-2 H.P. OUT Rch 2
P4503-3 MPX FILTER Ⓗ 3
P4503-4 TUNER Ⓗ 4
P6506 (TO DIGITAL)
BP9001-1 LEVEL 2 Ⓗ 1
BP9001-2 NR ON Ⓗ 2
P6505
1 MIC OUT
2 REG 12.3V
3 MIC IN Ⓗ
4 GND (MIC)
5 GND (H.P.)
6 H.P. OUT Lch
7 H.P. OUT Rch
8 GND (FILTER)
P6504 (TO INPUT SELECT)
P4951-1 MIC OUT 1
P4951-2 GND (MIC) 2
P4951-3 MIC IN Ⓗ 3
P4951-4 REG 12.3V 4
(NV-D80EG ONLY)
L6501 120µ
(NV-D80B/EV ONLY)
L6502 120µ
(NV-D80EG ONLY)
C6501 0.022
C6502 0.022
HEADPHONE VR
VR6504 2K
EVJVGAE05C23

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

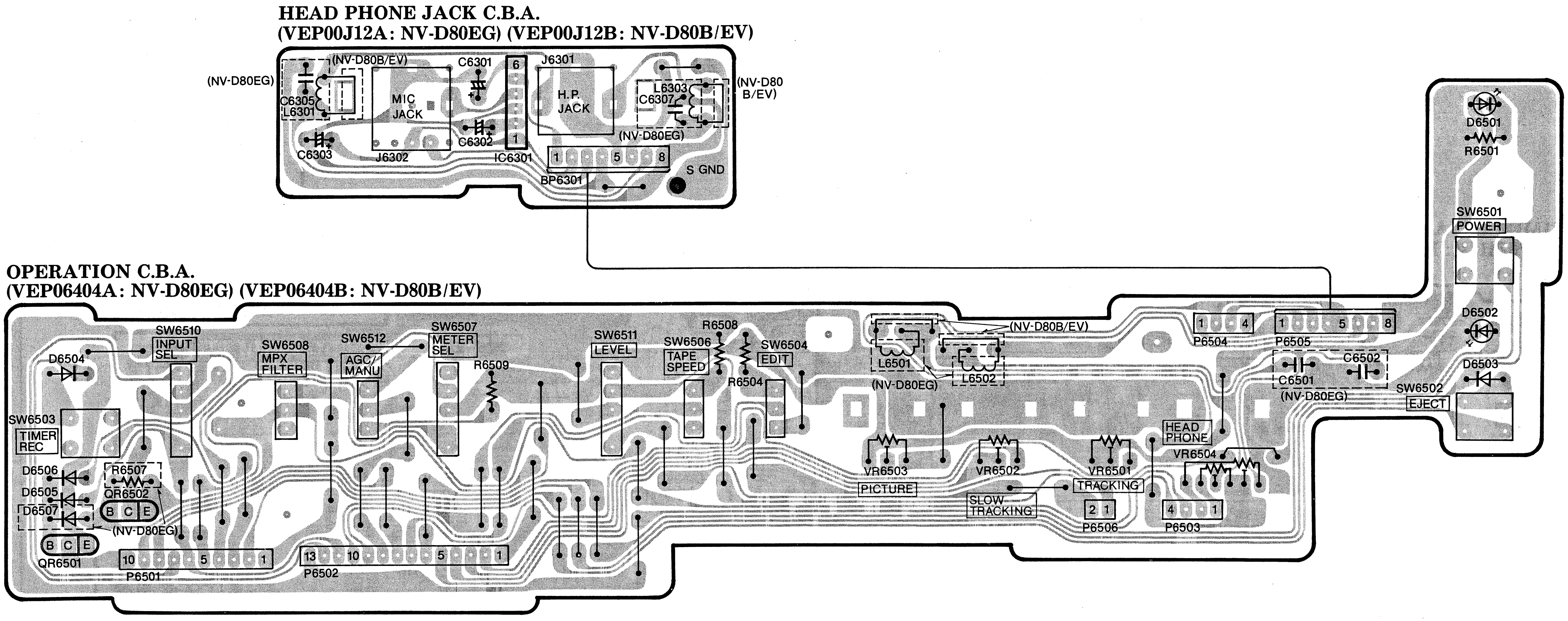
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.


VR6503
PICTURE
EVUJ16E04B24
20K
SW6501
POWER
EVQQS307K
D6501
POWER LED
LN81RCPHL
R6501
330
D6503
MA165
SW6502
EJECT
EVQQS307K
D6502
CASSETTE IN LED
LN38GCPPSVT
R6504
1K
R6509
5600
SW6512
AGC/MANU
ESD14314
AGC
MANU
SW6504
EDIT
ON
OFF
ESD14314
SW6507
METER SELECT
TRACKING
LEVEL
OFF
ESD14316
SW6508
MPX FILTER
ON
OFF
ESD14314
QR6502
DTA144EA
(AV Ⓗ:OFF)
12.6
0.1
12.6
SW6510
INPUT SELECT
LINE
TUNER
SIMUL
ESD14316
SW6511
NR SW
ESD14316
LEVEL (H)
LEVEL (L)
OFF
D6506
MA165
(NV-D80EG ONLY)
R6507
2200
(NV-D80EG ONLY)
D6507
MA165
D6505
MA165
SW6506
TAPE SPEED
ESD14314
SP
LP
R6508
22K
P6502 (TO SYSTEM CTL)
P6003-1 NON SW 12V 1
P6003-2 CASSETTE LED 2
P6003-3 TRACKING VR 3
P6003-4 SLOW TR VR ⊖ 4
P6003-5 SLOW TR VR ⊕ 5
P6003-6 REG 5.1V 6
P6003-7 PICTURE CTL 7
P6003-8 AV Ⓗ 8
P6003-9 AGC Ⓗ 9
P6003-10 EDIT Ⓗ 10
P6003-11 SPⒽ/LPⓂ SW 11
P6003-12 SIMUL Ⓗ 12
P6003-13 LINE Ⓗ 13
P6003-14 TUNER Ⓗ 14
JT 1
.3V 2
Ⓗ 3
MIC) 4
H.P.) 5
JT Lch 6
JT Rch 7
FILTER) 8
MIC JACK
J6302
VJJ0138
SW6503
TIMER REC
EVQQS307K
P6503 (TO FM AUDIO)
P4503-1 H.P. OUT Lch 1
P4503-2 H.P. OUT Rch 2
P4503-3 MPX FILTER Ⓗ 3
P4503-4 TUNER Ⓗ 4
5.0
0
QR6501
DTC144EA
(TUNER Ⓗ:ON)
D6504
MA165
P6506 (TO DIGITAL)
BP9001-1 LEVEL 2 Ⓗ 1
BP9001-2 NR ON Ⓗ 2
H.P. JACK
J6301
VJJ0096
P6505
1 MIC OUT
2 REG 12.3V
3 MIC IN Ⓗ
4 GND (MIC)
5 GND (H.P.)
6 H.P. OUT Lch
7 H.P. OUT Rch
8 GND (FILTER)
(NV-D80EG ONLY)
L6501
120µ
(NV-D80B/EV ONLY)
L6502
120µ
(NV-D80EG ONLY)
Ⓑ
C6501
0.022
Ⓑ
C6502
0.022
HEADPHONE VR
VR6504 2K
EVJVGAE05C23
TO CHASSIS EARTH
P6504 (TO INPUT SELECT)
P4951-1 MIC OUT 1
P4951-2 GND (MIC) 2
P4951-3 MIC IN Ⓗ 3
P4951-4 REG 12.3V 4
P6501 (TO TIMER)
1 GND P7501-1
2 P41 P7501-2
3 P51 P7501-3
4 AC METER Ⓗ P7501-4
5 METER Ⓗ P7501-5
6 SIMUL Ⓗ P7501-6
7 P31 P7501-7
8 P20 P7501-8
9 P53 P7501-9
10 TUNER Ⓛ P7501-10

THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-44. OPERATION C.B.A. (VEP06404A: NV-D80EG) (VEP06404B: NV-D80B/EV)



HEAD PHONE JACK C.B.A.
(VEP00J12A: NV-D80EG) (VEP00J12B: NV-D80B/EV)

OPERATION C.B.A.
(VEP06404A: NV-D80EG) (VEP06404B: NV-D80B/EV)

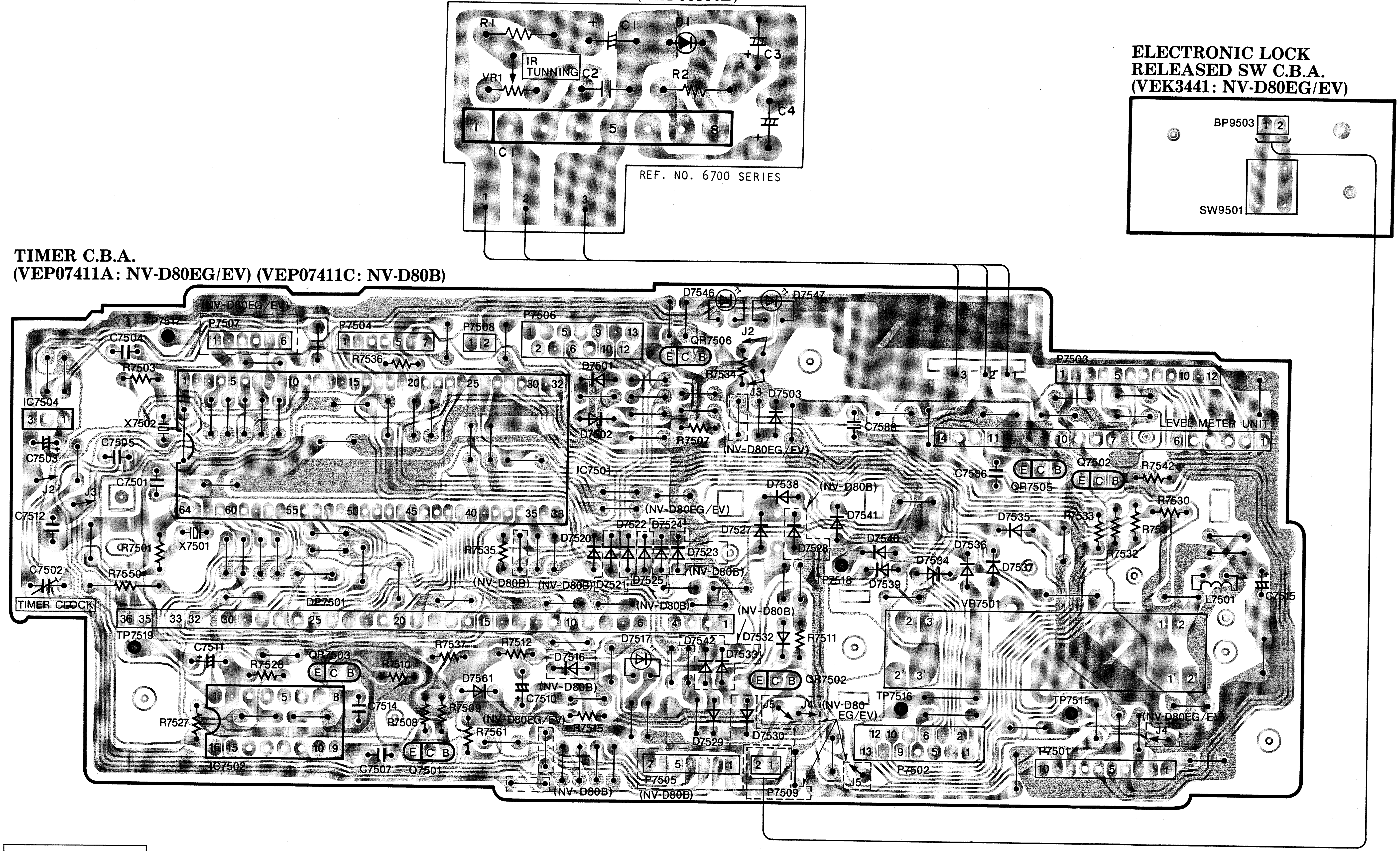
(NV-D80EG)
(NV-D80B/EV)
C6305
L6301
C6303
MIC JACK
J6302
C6301
C6302
6
1
IC6301
J6301
H.P. JACK
(NV-D80EG)
L6303
C6307
(NV-D80 B/EV)
1
5
8
BP6301
S GND
D6501
R6501
SW6501
POWER
SW6510
INPUT SEL
D6504
SW6503
TIMER REC
D6506
D6505
D6507
R6507
QR6502
B C E
(NV-D80EG)
B C E
QR6501
10
5
1
P6501
SW6508
MPX FILTER
SW6512
AGC/ MANU
SW6507
METER SEL
R6509
13
10
5
1
P6502
SW6511
LEVEL
SW6506
TAPE SPEED
R6508
R6504
SW6504
EDIT
(NV-D80B/EV)
L6501
L6502
(NV-D80EG)
1
4
P6504
1
5
8
P6505
C6501
C6502
(NV-D80EG)
D6502
D6503
SW6502
EJECT
HEAD PHONE
VR6504
VR6503
PICTURE
VR6502
SLOW TRACKING
VR6501
TRACKING
2 1
P6506
4
1
P6503

3-45. TIMER C.B.A. (VEP07411A: NV-D80EG/EV) (VEP07411C: NV-D80B)

IR RECEIVER C.B.A. (VEP06380B)

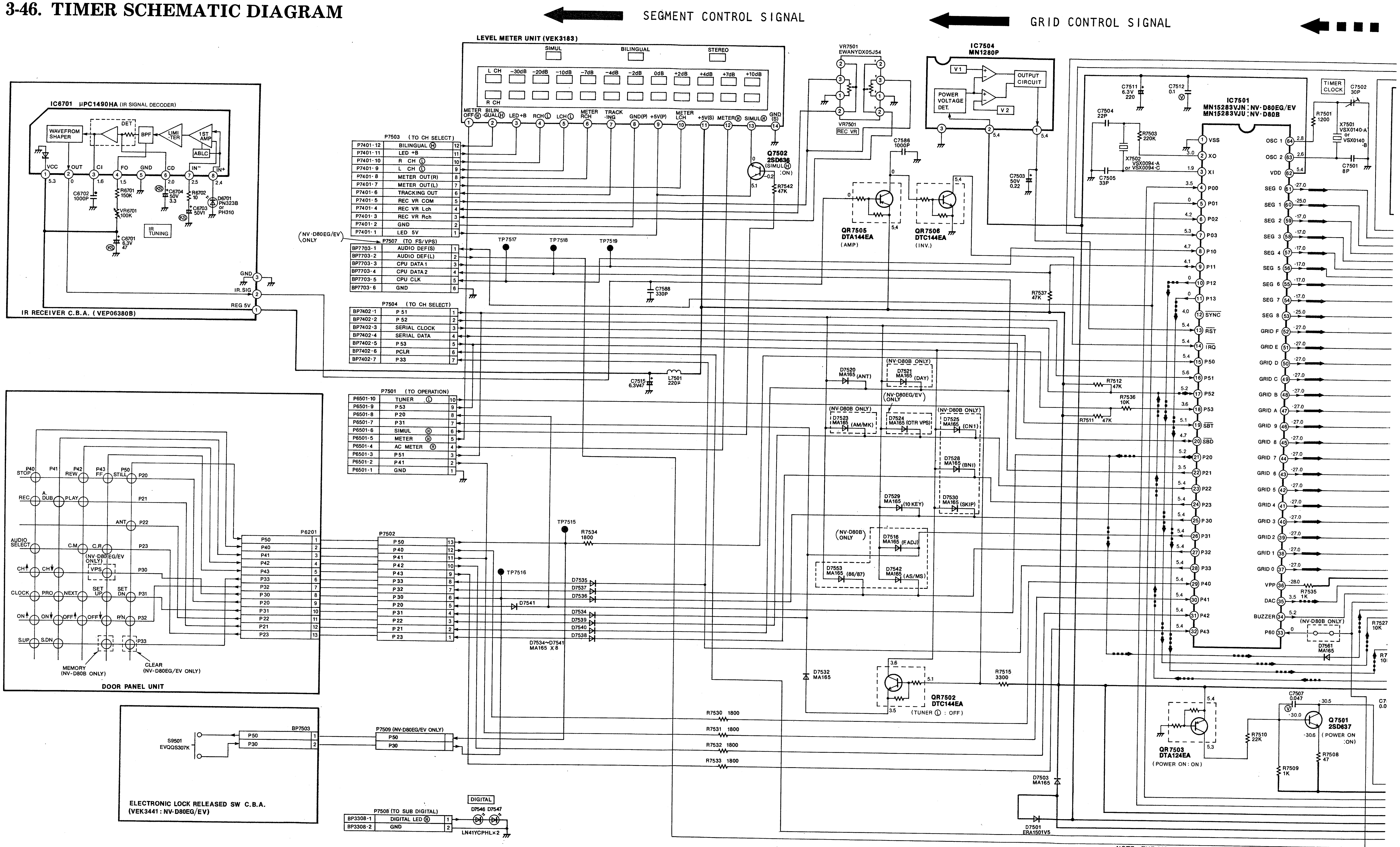
ELECTRONIC LOCK RELEASED SW C.B.A. (VEK3441: NV-D80EG/EV)

TIMER C.B.A. (VEP07411A: NV-D80EG/EV) (VEP07411C: NV-D80B)


R1
C1
D1
C3
IR TUNNING
VR1
C2
R2
C4
IC1
REF. NO. 6700 SERIES
BP9503
SW9501
TP7517
(NV-D80EG/EV)
P7507
P7504
P7508
P7506
D7546
D7547
J2
QR7506
C7504
R7503
R7536
IC7504
X7502
C7505
C7503
C7501
J3
C7512
R7501
X7501
C7502
R7550
TIMER CLOCK
IC7501
D7501
D7502
R7534
R7507
D7503
(NV-D80EG/EV)
C7588
P7503
LEVEL METER UNIT
C7586
QR7505
Q7502
R7542
R7530
R7533
R7531
R7532
D7538
(NV-D80B)
D7541
D7535
D7527
D7528
D7540
D7536
D7534
D7537
D7539
TP7518
VR7501
L7501
C7515
R7535
D7520
D7522
D7524
D7523
D7521
D7525
(NV-D80B)
DP7501
TP7519
C7511
R7528
QR7503
R7537
R7512
R7510
D7516
D7517
D7542
D7532
D7533
R7511
QR7502
D7561
C7510
C7514
R7509
R7508
R7527
R7561
R7515
IC7502
C7507
Q7501
D7529
D7530
J5
J4
(NV-D80 EG/EV)
TP7516
TP7515
P7505
P7509
P7502
P7501
E C B

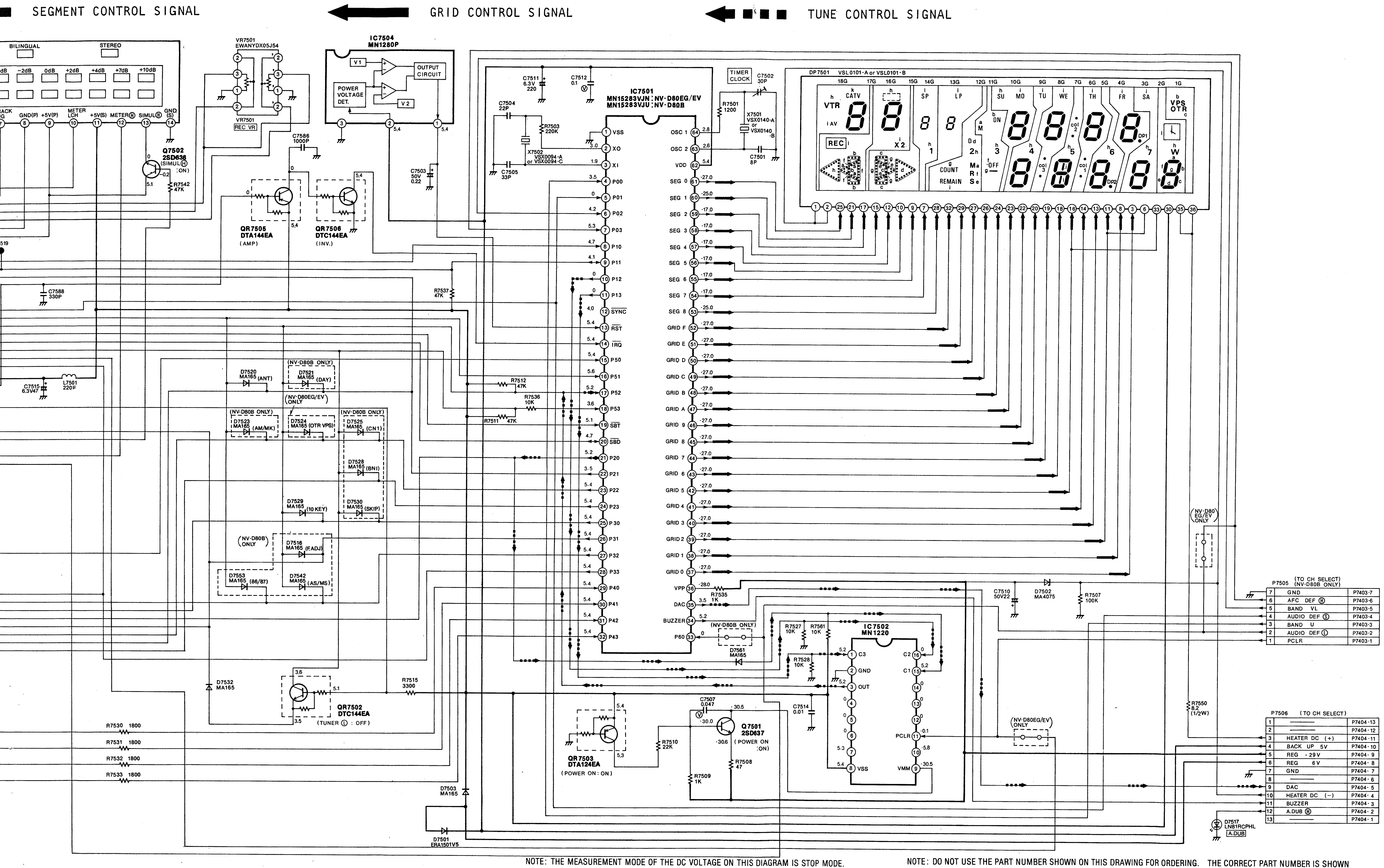
Back Page:
OPERATION Section

3-46. TIMER SCHEMATIC DIAGRAM



SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
LEVEL METER UNIT (VEK3183)
SIMUL
BILINGUAL
STEREO
L CH
R CH
VR7501 EWANYDX05J54
IC7504 MN1280P
POWER VOLTAGE DET.
OUTPUT CIRCUIT
IC7501 MN15283VJN : NV-D80EG/EV MN15283VJU : NV-D80B
TIMER CLOCK
IC6701 μPC1490HA (IR SIGNAL DECODER)
WAVEFROM SHAPER
DET
BPF
LIMI TER
1ST AMP
ABLC
IR TUNING
IR RECEIVER C.B.A. (VEP06380B)
P7503 (TO CH SELECT)
P7507 (TO FS/VPS)
P7504 (TO CH SELECT)
P7501 (TO OPERATION)
P6201
P7502
Q7502 2SD636
QR7505 DTA144EA (AMP)
QR7506 DTC144EA (INV.)
QR7502 DTC144EA
QR7503 DTA124EA (POWER ON : ON)
Q7501 2SD637 (POWER ON :ON)
D7534~D7541 MA165 X 8
DOOR PANEL UNIT
MEMORY (NV-D80B ONLY)
CLEAR (NV-D80EG/EV ONLY)
ELECTRONIC LOCK RELEASED SW C.B.A. (VEK3441 : NV-D80EG/EV)
S9501 EVQQS307K
BP7503
P7509 (NV-D80EG/EV ONLY)
P7508 (TO SUB DIGITAL)
DIGITAL
LN41YCPHL×2
D7501 ERA1501V5

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS

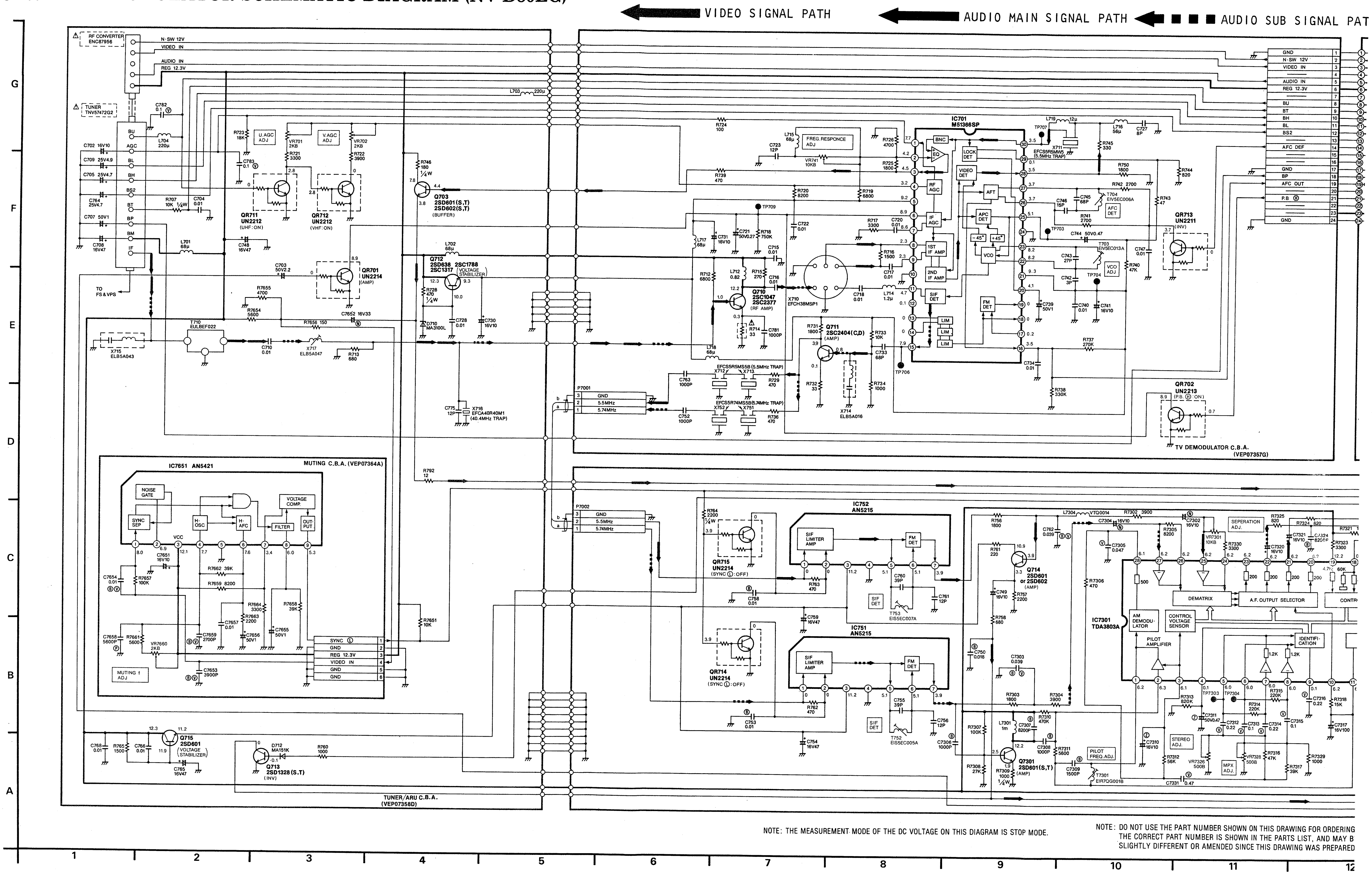

SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
BILINGUAL
STEREO
-2dB
0dB
+2dB
+4dB
+7dB
+10dB
GND(P)
+5V(P)
METER LCH
+5V(S)
METER(H)
SIMUL(H)
GND (S)
VR7501 EWANYDX05J54
VR7501 REC VR
IC7504 MN1280P
V1
V2
OUTPUT CIRCUIT
POWER VOLTAGE DET.
C7586 1000P
Q7502 2SD636 (SIMUL(H) :ON)
R7542 47K
QR7505 DTA144EA (AMP)
QR7506 DTC144EA (INV.)
C7588 330P
C7515 6.3V47
L7501 220µ
C7511 6.3V 220
C7512 0.1
C7504 22P
R7503 220K
X7502 VSX0094-A or VSX0094-C
C7505 33P
C7503 50V 0.22
IC7501
MN15283VJN : NV-D80EG/EV
MN15283VJU : NV-D80B
VSS
XO
XI
P00
P01
P02
P03
P10
P11
P12
P13
SYNC
RST
IRQ
P50
P51
P52
P53
SBT
SBD
P20
P21
P22
P23
P30
P31
P32
P33
P40
P41
P42
P43
OSC 1
OSC 2
VDD
SEG 0
SEG 1
SEG 2
SEG 3
SEG 4
SEG 5
SEG 6
SEG 7
SEG 8
GRID F
GRID E
GRID D
GRID C
GRID B
GRID A
GRID 9
GRID 8
GRID 7
GRID 6
GRID 5
GRID 4
GRID 3
GRID 2
GRID 1
GRID 0
VPP
DAC
BUZZER
P60
TIMER CLOCK
C7502 30P
R7501 1200
X7501 VSX0140-A or VSX0140-B
C7501 8P
R7537 47K
R7512 47K
R7536 10K
R7511 47K
D7520 MA165 (ANT)
(NV-D80B ONLY)
D7521 MA165 (DAY)
(NV-D80EG/EV ONLY)
D7523 MA165 (AM/MK)
D7524 MA165 (OTR VPS)
D7525 MA165 (CN1)
D7528 MA165 (BNI)
D7529 MA165 (10 KEY)
D7530 MA165 (SKIP)
D7516 MA165 (FADJ)
D7553 MA165 (86/87)
D7542 MA165 (AS/MS)
D7532 MA165
QR7502 DTC144EA (TUNER (L) : OFF)
R7515 3300
R7530 1800
R7531 1800
R7532 1800
R7533 1800
D7503 MA165
D7501 ERA1501V5
QR7503 DTA124EA (POWER ON : ON)
R7510 22K
C7507 0.047
Q7501 2SD637 (POWER ON :ON)
R7508 47
R7509 1K
R7535 1K
D7561 MA165
R7527 10K
R7561 10K
R7528 10K
IC7502 MN1220
C3
GND
OUT
C2
C1
PCLR
VMM
VSS
C7514 0.01
C7510 50V22
D7502 MA4075
R7507 100K
R7550 8.2 (1/2W)
DP7501 VSL0101-A or VSL0101-B
VTR
CATV
IAV
REC
SP
LP
X2
COUNT
REMAIN
ON
OFF
SU
MO
TU
WE
TH
FR
SA
VPS
OTR
DP1
DP2
P7505 (TO CH SELECT) (NV-D80B ONLY)
7 GND P7403-7
6 AFC DEF (H) P7403-6
5 BAND VL P7403-5
4 AUDIO DEF (S) P7403-4
3 BAND U P7403-3
2 AUDIO DEF (L) P7403-2
1 PCLR P7403-1
P7506 (TO CH SELECT)
1 —— P7404-13
2 —— P7404-12
3 HEATER DC (+) P7404-11
4 BACK UP 5V P7404-10
5 REG -29V P7404-9
6 REG 6V P7404-8
7 GND P7404-7
8 —— P7404-6
9 DAC P7404-5
10 HEATER DC (−) P7404-4
11 BUZZER P7404-3
12 A.DUB (H) P7404-2
13 —— P7404-1
D7517 LN81RCPHL
A.DUB

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

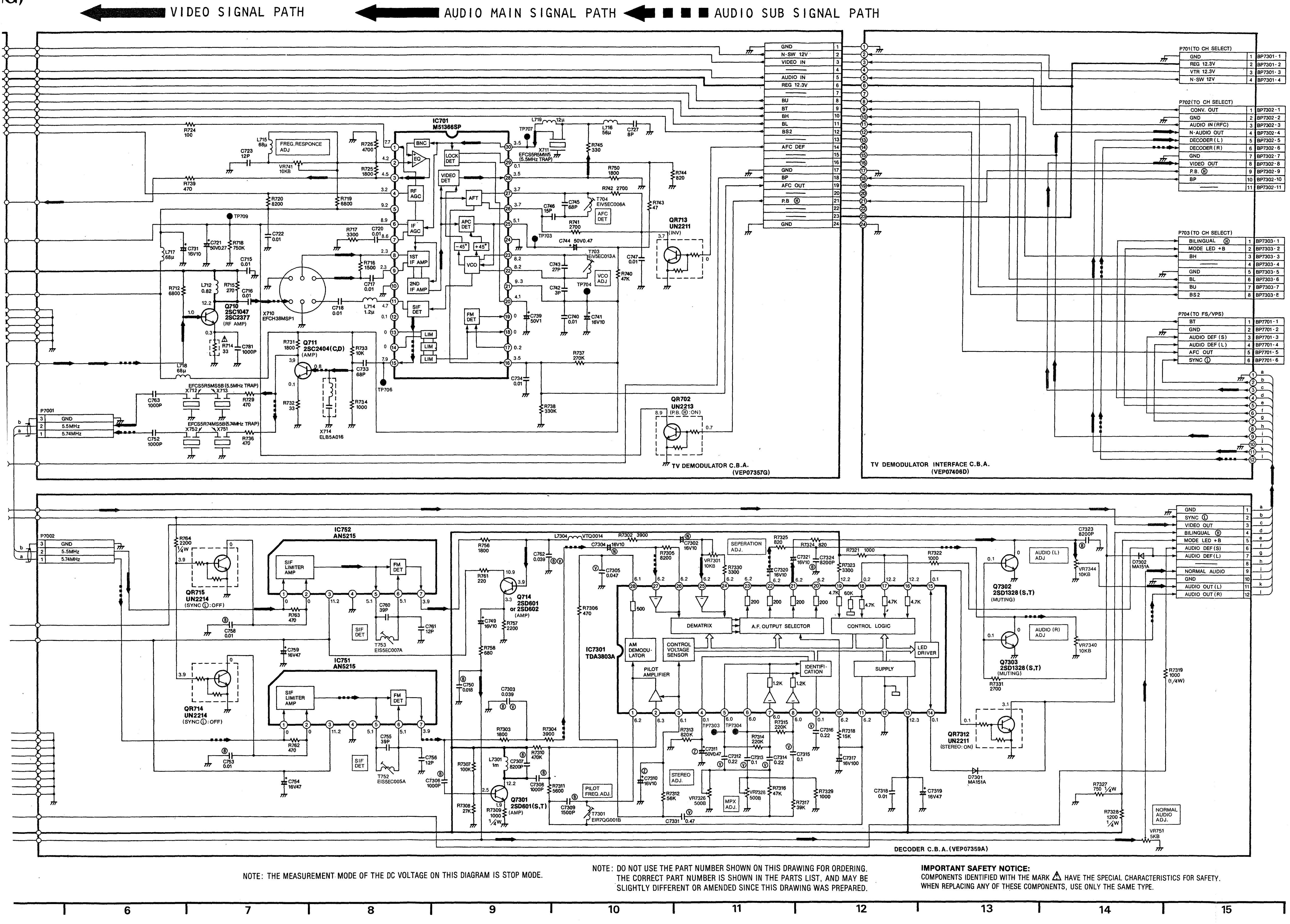
Next Page:
TV DEMODULATOR Section

3-47. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-D80EG)


VIDEO SIGNAL PATH
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PAT
RF CONVERTER ENC87956
TUNER TNV57472G2
IC701 M51366SP
IC7651 AN5421
MUTING C.B.A. (VEP07364A)
IC752 AN5215
IC751 AN5215
IC7301 TDA3803A
TV DEMODULATOR C.B.A. (VEP07357G)
TUNER/ARU C.B.A. (VEP07358D)
QR711 UN2212 (UHF:ON)
QR712 UN2212 (VHF:ON)
QR701 UN2214 (AMP)
Q703 2SD601(S,T) 2SD602(S,T) (BUFFER)
Q712 2SD638 2SC1788 2SC1317 (VOLTAGE STABILIZER)
Q710 2SC1047 2SC2377 (RF AMP)
Q711 2SC2404(C,D) (AMP)
QR713 UN2211 (INV)
QR702 UN2213
QR715 UN2214 (SYNC: OFF)
QR714 UN2214 (SYNC: OFF)
Q714 2SD601 or 2SD602 (AMP)
Q7301 2SD601(S,T) (AMP)
Q715 2SD601 (VOLTAGE STABILIZER)
Q713 2SD1328(S,T) (INV)
U.AGC ADJ
V.AGC ADJ
FREQ.RESPONCE ADJ
NOISE GATE
SYNC SEP
H-OSC
H-AFC
FILTER
VOLTAGE COMP.
OUT-PUT
MUTING 1 ADJ
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
IF AGC
AFT
APC DET
VCO
1ST IF AMP
2ND IF AMP
SIF DET
LIM
FM DET
VCO ADJ
AFC DET
SIF LIMITER AMP
SIF DET
SEPERATION ADJ.
DEMATRIX
A.F. OUTPUT SELECTOR
AM DEMODU-LATOR
CONTROL VOLTAGE SENSOR
PILOT AMPLIFIER
IDENTIFI-CATION
STEREO ADJ.
PILOT FREQ.ADJ.
MPX ADJ.
GND
N-SW 12V
VIDEO IN
AUDIO IN
REG 12.3V
BU
BT
BH
BL
BS2
AFC DEF
BP
AFC OUT
P.B
SYNC
5.5MHz
5.74MHz
P7001
P7002
TO FS & VPS
X715 ELB5A043
T710 EULBEF022
X717 ELB5A047
X716 EFCA40R40M1 (40.4MHz TRAP)
X710 EFCH38MSP1
X714 ELB5A016
X711 EFCS5R5MW5 (5.5MHz TRAP)
T704 EIV5EC006A
T703 EIV5EC013A
T753 EIS5EC007A
T752 EIS5EC005A
T7301 EIR7QG001B
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY B
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED


VIDEO SIGNAL PATH
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
IC701 M51366SP
IC752 AN5215
IC751 AN5215
IC7301 TDA3803A
Q710 2SC1047 2SC2377 (RF AMP)
Q711 2SC2404(C,D) (AMP)
Q714 2SD601 or 2SD602 (AMP)
Q7301 2SD601(S,T) (AMP)
Q7302 2SD1328(S,T) (MUTING)
Q7303 2SD1328(S,T) (MUTING)
QR713 UN2211 (INV)
QR702 UN2213 (P.B. Ⓗ: ON)
QR715 UN2214 (SYNC Ⓛ: OFF)
QR714 UN2214 (SYNC Ⓛ: OFF)
QR7312 UN2211 (STEREO: ON)
P701 (TO CH SELECT)
P702 (TO CH SELECT)
P703 (TO CH SELECT)
P704 (TO FS/VPS)
P7001
P7002
TV DEMODULATOR C.B.A. (VEP07357G)
TV DEMODULATOR INTERFACE C.B.A. (VEP07406D)
DECODER C.B.A. (VEP07359A)
6
7
8
9
10
11
12
13
14
15

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

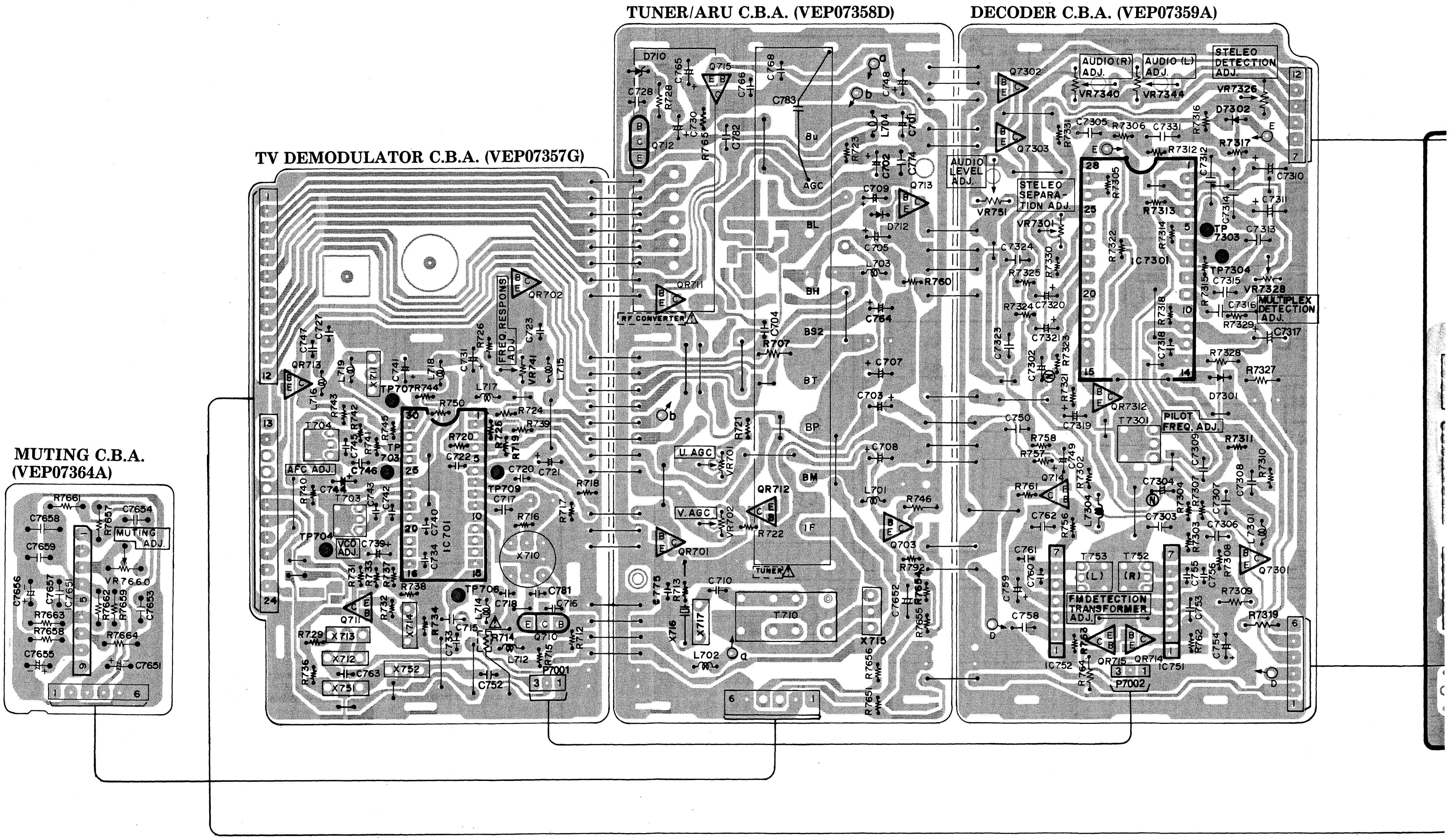
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

TV DEMODULATOR SCHEMATIC (NV-D80EG)	
Transistor	
Q703	F-4
Q710	E-7
Q711	E-8
Q712	F-4
Q713	A-3
Q714	C-9
Q715	A-2
Q7301	A-9
Q7302	C-13
Q7303	B-13
Transistor & Resistor	
QR701	E-3
QR702	E-11
QR711	F-3
QR712	F-3
QR713	F-10
QR714	B-7
QR715	C-7
QR7312	B-13
Integrated Circuit	
IC701	G-9
IC751	B-8
IC752	C-8
IC7301	C-10
IC7651	D-2
Test Point	
TP703	F-9
TP707	G-9
TP709	F-7
TP7303	B-11
TP7304	B-11
Adjustment	
VR701	G-3
VR702	G-3
VR741	F-7
VR751	A-14
VR7301	C-11
VR7326	A-11
VR7328	A-11
VR7340	C-14
VR7344	C-14
VR7660	B-2
T703	F-10
T704	F-10
T752	B-8
T753	C-8
T7301	A-10
X717	E-3
Connector	
P701	G-15
P702	G-15
P703	F-15
P704	E-15
P7001	D-5
P7002	C-5

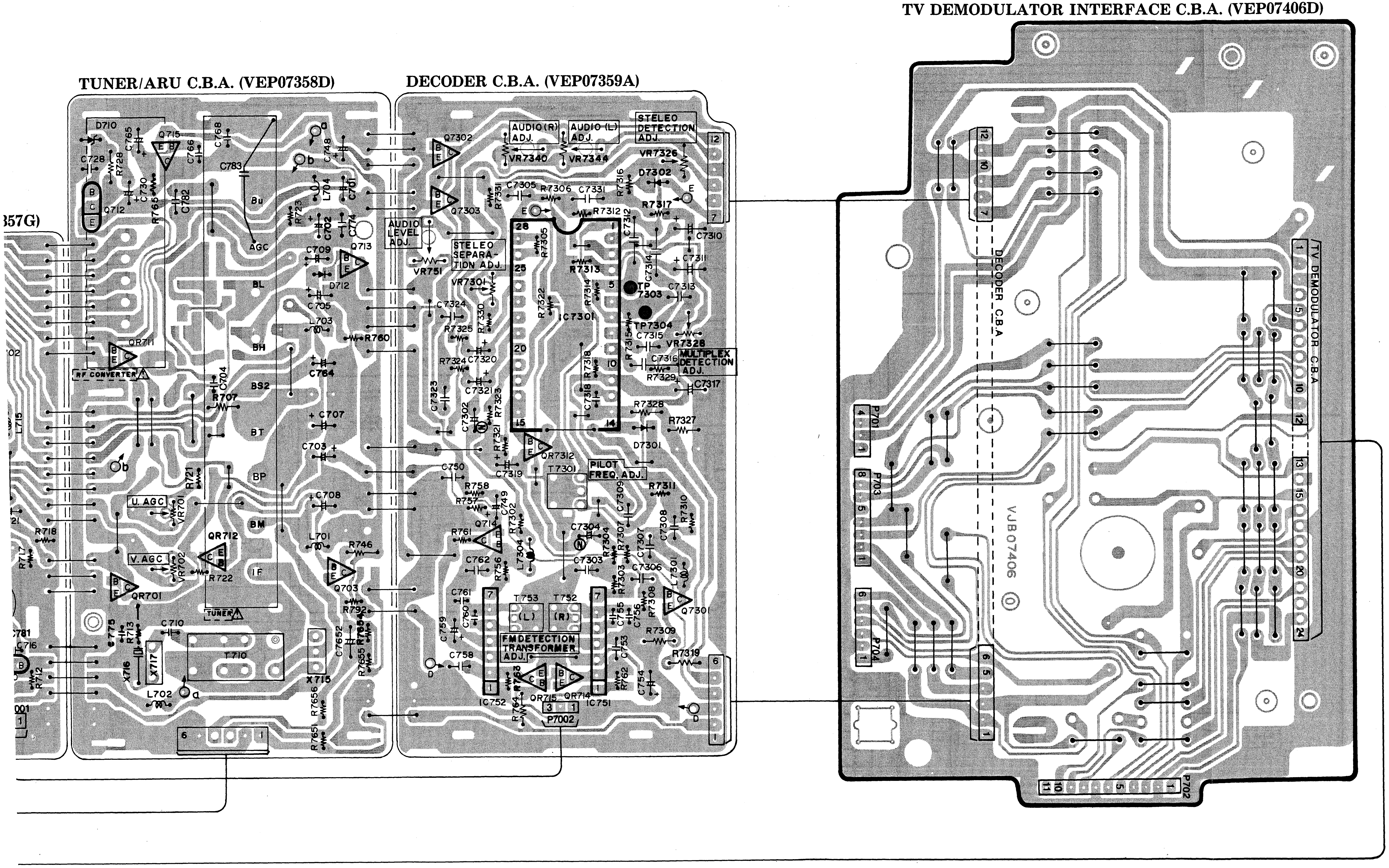
ADDRESS INFORMATION

3-48. TV DEMODULATOR INTERFACE C.B.A. (VEP07406D: NV-D80EG), TV DEMODULATOR C.B.A. (VEP07357G: NV-D80EG) & TUNER/ARU C.B.A.



TUNER/ARU C.B.A. (VEP07358D)
DECODER C.B.A. (VEP07359A)
TV DEMODULATOR C.B.A. (VEP07357G)
MUTING C.B.A.
(VEP07364A)
MUTING ADJ.
VR7660
R7661
C7654
C7658
C7659
R7657
C7656
C7657
C7651
R7662
R7659
C7653
R7663
R7658
R7664
C7655
D710
C728
R728
C765
Q715
C766
C768
C783
C748
C730
C782
R765
Q712
L704
C701
C702
C774
R723
AGC
C709
Q713
D712
C705
L703
R760
RF CONVERTER
QR711
C704
R707
C764
C707
C703
U. AGC
VR701
C708
QR712
V. AGC
VR702
R722
L701
R746
Q703
QR701
C775
R713
C710
X716
X717
T710
L702
X715
R792
C7652
R7655
R7656
R7651
R7654
TUNER
Bu
BL
BH
BS2
BT
BP
BM
IF
AUDIO LEVEL ADJ.
VR751
AUDIO (R) ADJ.
VR7340
AUDIO (L) ADJ.
VR7344
STELEO DETECTION ADJ.
VR7326
D7302
Q7302
Q7303
R7331
C7305
R7306
C7331
R7316
R7317
R7312
R7305
R7313
C7312
C7314
C7310
C7311
C7313
STELEO SEPARATION ADJ.
VR7301
C7324
R7325
R7330
R7322
IC7301
R7314
TP7303
TP7304
R7315
C7315
VR7328
MULTIPLEX DETECTION ADJ.
C7316
R7329
C7317
R7324
C7320
C7321
R7323
C7323
C7302
R7321
R7318
C7318
R7328
R7327
D7301
QR7312
C7319
PILOT FREQ. ADJ.
T7301
R7311
C750
R758
R757
C749
C7309
C7308
R7310
Q714
R761
R7302
C7304
C7307
L7304
R7304
C762
C7303
C7306
R7303
R7307
C761
C760
T753
(L)
T752
(R)
C755
C756
R7308
L7301
Q7301
C759
C758
FM DETECTION TRANSFORMER ADJ.
C753
R7309
R7319
R763
QR715
QR714
R762
C754
IC752
IC751
R764
P7002
C747
C727
QR713
L719
X711
C741
L718
C731
R726
FREQ. RESPONS ADJ.
C723
VR741
L715
QR702
TP707
R744
L716
R743
R742
R741
R745
R750
L717
R724
R739
T704
C743
TP703
R720
C722
R725
R719
C746
AFC ADJ.
C744
R740
T703
C742
C740
C734
IC701
TP709
C720
C721
C717
R718
R716
R717
X710
TP704
VCO ADJ.
C739
R731
R733
R737
R738
TP708
C781
C716
C718
L714
Q711
R732
X714
R734
C733
C715
R714
Q710
R715
R712
R729
X713
X712
R736
C763
X752
X751
L712
C752
P7001
12
13
24
28
25
5
20
10
15
14
30
16
1
7
6
9
3
b
a
E
D
B
C

6D: NV-D80EG), TV DEMODULATOR C.B.A. (VEP07357G: NV-D80EG) & TUNER/ARU C.B.A. (VEP07358D: NV-D80EG)


TV DEMODULATOR INTERFACE C.B.A. (VEP07406D)

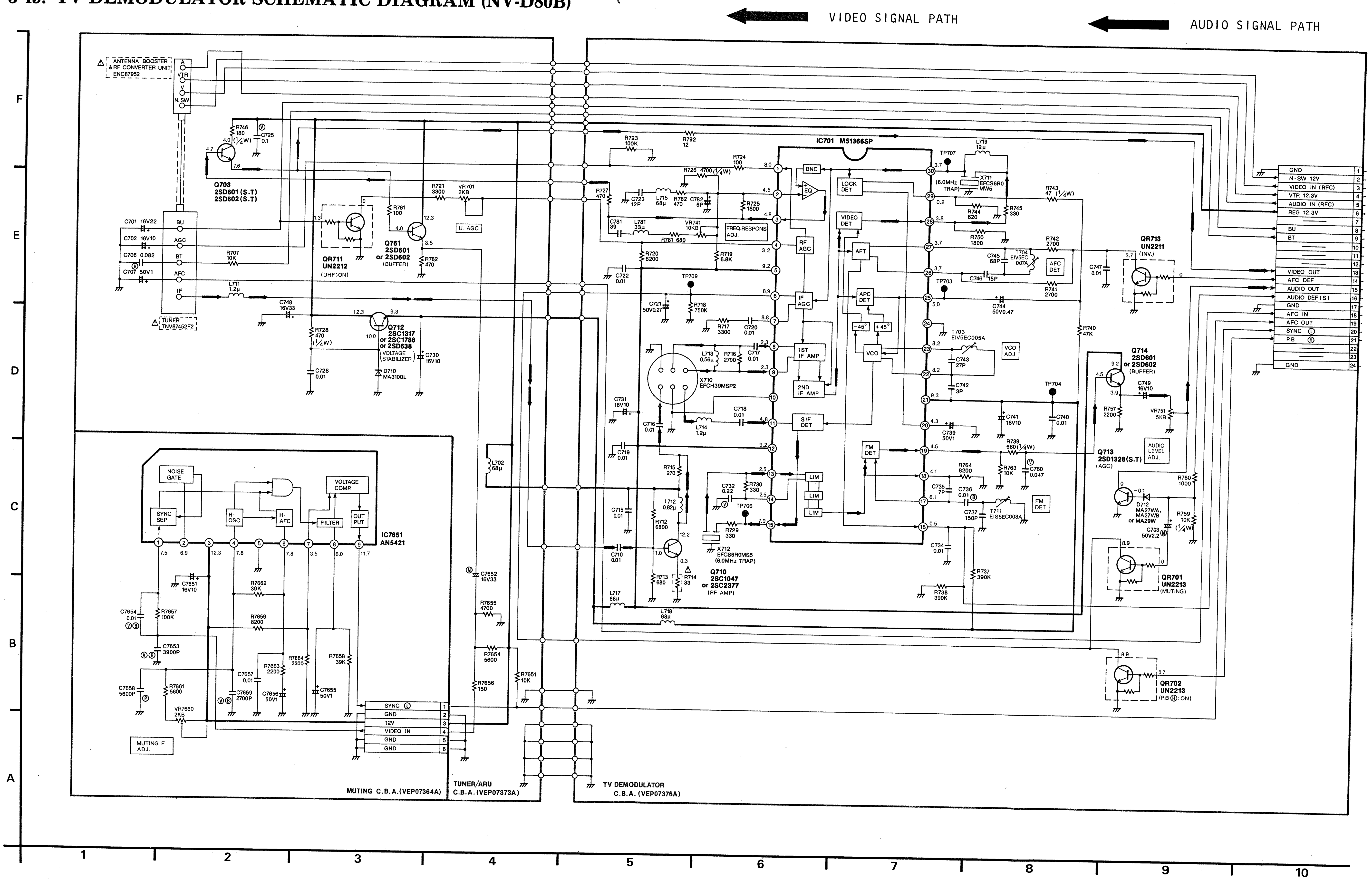
TUNER/ARU C.B.A. (VEP07358D)

DECODER C.B.A. (VEP07359A)

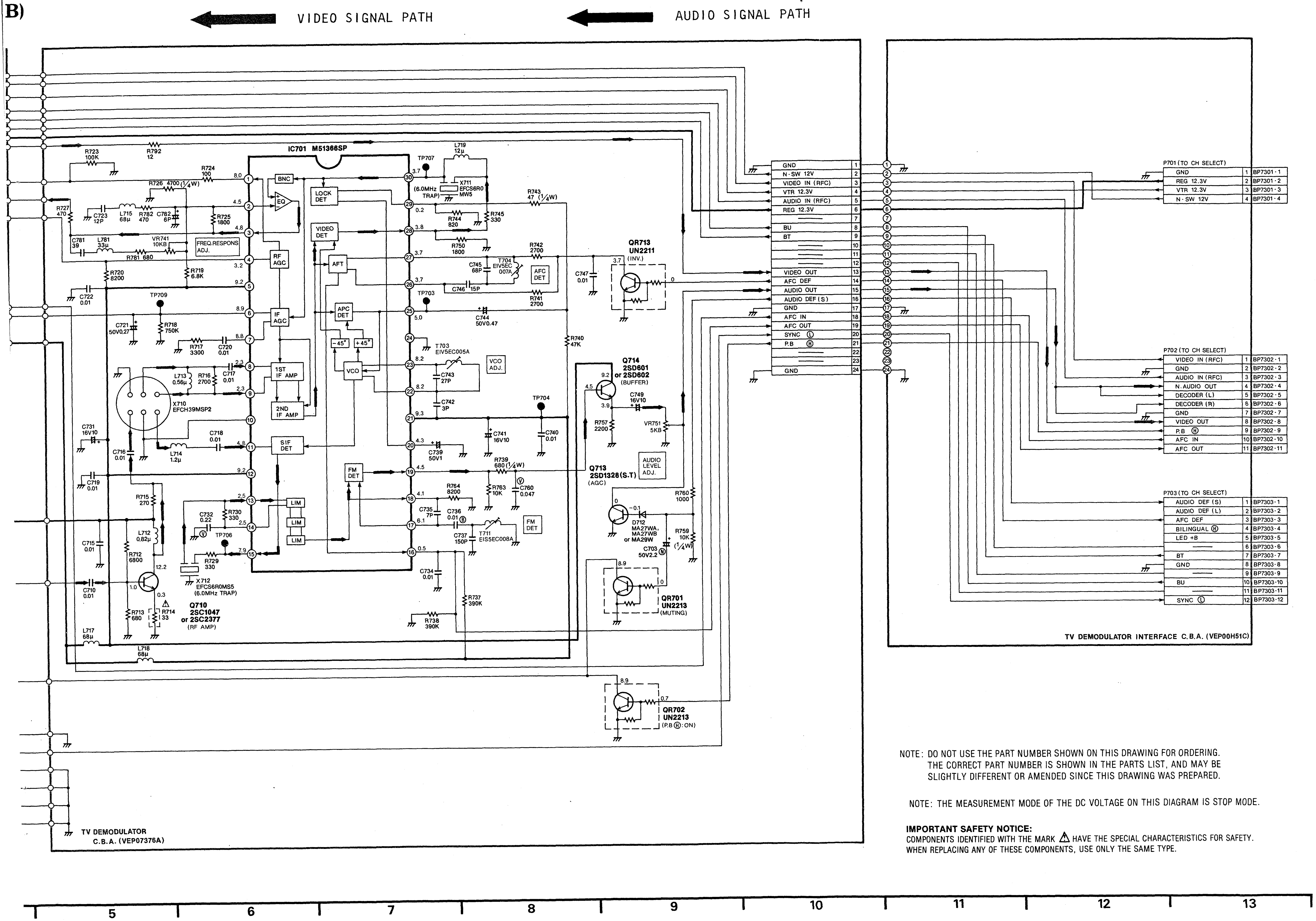
357G)
D710
Q715
C728
R729
C765
C766
C768
C783
C730
R765
C782
Q712
AGC
Bu
BL
BH
BS2
BT
BP
BM
IF
L704
C701
C774
C748
C709
Q713
D712
C705
L703
R760
C764
C707
C703
C708
L701
R746
Q703
R792
QR711
RF CONVERTER
C704
R707
R721
U. AGC
VR701
V. AGC
VR702
QR712
R722
QR701
R718
R717
L715
C775
R713
C710
T710
X716
X717
X715
L702
R712
C716
C781
TUNER
C7652
R7655
R7656
R7651
Q7302
Q7303
AUDIO (R) ADJ.
VR7340
AUDIO (L) ADJ.
VR7344
STELEO DETECTION ADJ.
VR7326
D7302
R7317
C7305
R7306
C7331
R7312
R7331
AUDIO LEVEL ADJ.
STELEO SEPARATION ADJ.
VR751
VR7301
R7305
R7313
C7312
C7314
C7310
C7311
TP 7303
TP7304
C7313
VR7328
C7315
C7316
MULTIPLEX DETECTION ADJ.
R7329
C7317
IC7301
C7324
R7325
R7330
R7322
R7314
R7315
R7318
C7318
R7324
C7320
C7321
R7323
C7323
C7302
R7321
QR7312
C7319
R7328
R7327
D7301
T7301
PILOT FREQ. ADJ.
R7311
C750
R758
R757
C749
R7302
Q714
R761
C7304
R7304
R7307
C7307
C7308
R7310
C7309
L7304
C7303
C762
R756
C7306
R7303
L7301
Q7301
C761
C760
C759
T753 (L)
T752 (R)
FM DETECTION TRANSFORMER ADJ.
C755
C756
R7308
R7309
C753
R7319
C758
R763
QR715
QR714
R762
C754
IC752
IC751
R764
P7002
P701
P703
P704
P702
DECODER C.B.A
TV DEMODULATOR C.B.A
VJB07406

Back Page:
TV DEMODULATOR Section

3-49. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-D80B)


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
ANTENNA BOOSTER & RF CONVERTER UNIT ENC87952
A
VTR
V
N.SW
TUNER TNV87452F2
BU
AGC
BT
AFC
IF
C701 16V22
C702 16V10
C706 0.082
C707 50V1
R707 10K
L711 1.2μ
C748 16V33
R746 180 (1/4W)
C725 0.1
Q703 2SD601 (S.T) 2SD602 (S.T)
QR711 UN2212 (UHF:ON)
R761 100
Q761 2SD601 or 2SD602 (BUFFER)
R762 470
R721 3300
VR701 2KB
U. AGC
R728 470 (1/4W)
C728 0.01
Q712 2SC1317 or 2SC1788 or 2SD638 (VOLTAGE STABILIZER)
D710 MA3100L
C730 16V10
L702 68μ
C7652 16V33
R7655 4700
R7654 5600
R7656 150
R7651 10K
NOISE GATE
SYNC SEP
H-OSC
H-AFC
FILTER
VOLTAGE COMP.
OUT PUT
IC7651 AN5421
C7651 16V10
C7654 0.01
R7657 100K
C7653 3900P
C7658 5600P
R7661 5600
VR7660 2KB
R7662 39K
R7659 8200
C7657 0.01
C7659 2700P
R7663 2200
C7656 50V1
R7664 3300
C7655 50V1
R7658 39K
MUTING F ADJ.
SYNC Ⓛ
GND
12V
VIDEO IN
GND
GND
MUTING C.B.A. (VEP07364A)
TUNER/ARU C.B.A. (VEP07373A)
TV DEMODULATOR C.B.A. (VEP07376A)
IC701 M51366SP
R723 100K
R792 12
R724 100
R726 4700 (1/4W)
R727 470
C723 12P
L715 68μ
R782 470
C782 6P
R725 1800
C781 39
L781 33μ
VR741 10KB
R781 680
FREQ.RESPONS ADJ.
R720 8200
R719 6.8K
C722 0.01
TP709
C721 50V0.27
R718 750K
R717 3300
C720 0.01
L713 0.56μ
R716 2700
C717 0.01
X710 EFCH39MSP2
C731 16V10
C716 0.01
L714 1.2μ
C718 0.01
C719 0.01
R715 270
C732 0.22
R730 330
TP706
R729 330
X712 EFCS6R0MS5 (6.0MHz TRAP)
L712 0.82μ
R712 6800
C715 0.01
C710 0.01
R713 680
R714 33
Q710 2SC1047 or 2SC2377 (RF AMP)
L717 68μ
L718 68μ
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
AFT
IF AGC
APC DET
-45°
+45°
VCO
1ST IF AMP
2ND IF AMP
SIF DET
FM DET
LIM
LIM
LIM
TP707
L719 12μ
X711 EFCS6R0MW5
(6.0MHz TRAP)
R743 47 (1/4W)
R744 820
R745 330
R750 1800
R742 2700
C745 68P
T704 EIV5EC007A
AFC DET
C746 15P
R741 2700
TP703
C744 50V0.47
T703 EIV5EC005A
VCO ADJ.
C743 27P
C742 3P
TP704
C741 16V10
C740 0.01
C739 50V1
R739 680 (1/4W)
R763 10K
C760 0.047
R764 8200
C735 7P
C736 0.01
C737 150P
T711 EIS5EC008A
FM DET
C734 0.01
R737 390K
R738 390K
R740 47K
C747 0.01
QR713 UN2211 (INV.)
Q714 2SD601 or 2SD602 (BUFFER)
C749 16V10
R757 2200
VR751 5KB
AUDIO LEVEL ADJ.
Q713 2SD1328 (S.T) (AGC)
R760 1000
D712 MA27WA, MA27WB or MA29W
R759 10K (1/4W)
C703 50V2.2
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B Ⓗ:ON)
GND 1
N·SW 12V 2
VIDEO IN (RFC) 3
VTR 12.3V 4
AUDIO IN (RFC) 5
REG 12.3V 6
7
BU 8
BT 9
10
11
12
VIDEO OUT 13
AFC DEF 14
AUDIO OUT 15
AUDIO DEF (S) 16
GND 17
AFC IN 18
AFC OUT 19
SYNC Ⓛ 20
P.B Ⓗ 21
22
23
GND 24

B)


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
IC701 M51366SP
BNC
EQ
LOCK DET
VIDEO DET
AFT
RF AGC
IF AGC
APC DET
-45°
+45°
VCO
VCO ADJ.
1ST IF AMP
2ND IF AMP
SIF DET
LIM
FM DET
AFC DET
FREQ.RESPONS ADJ.
AUDIO LEVEL ADJ.
QR713 UN2211 (INV.)
Q714 2SD601 or 2SD602 (BUFFER)
Q713 2SD1328(S.T) (AGC)
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B Ⓗ : ON)
Q710 2SC1047 or 2SC2377 (RF AMP)
D712 MA27WA, MA27WB or MA29W
X710 EFCH39MSP2
X711 EFCS6R0MW5 (6.0MHz TRAP)
X712 EFCS6R0MS5 (6.0MHz TRAP)
T703 EIV5EC005A
T704 EIV5EC007A
T711 EIS5EC008A
TP703
TP704
TP706
TP707
TP709
GND
N·SW 12V
VIDEO IN (RFC)
VTR 12.3V
AUDIO IN (RFC)
REG 12.3V
BU
BT
VIDEO OUT
AFC DEF
AUDIO OUT
AUDIO DEF (S)
AFC IN
AFC OUT
SYNC Ⓛ
P.B Ⓗ
P701 (TO CH SELECT)
P702 (TO CH SELECT)
P703 (TO CH SELECT)
N. AUDIO OUT
DECODER (L)
DECODER (R)
AUDIO DEF (L)
BILINGUAL Ⓗ
LED +B
TV DEMODULATOR INTERFACE C.B.A. (VEP00H51C)
TV DEMODULATOR C.B.A. (VEP07376A)
5
6
7
8
9
10
11
12
13

TV DEMODULATOR SCHEMATIC (NV-D80B)	
Transistor	
Q703	E-2
Q710	C-6
Q712	D-3
Q713	C-9
Q714	D-9
Q761	E-3
Transistor & Resistor	
QR701	C-9
QR702	B-9
QR711	E-3
QR713	E-9
Integrated Circuit	
IC701	F-6
IC7651	C-3
Test Point	
TP703	E-7
TP706	C-6
TP707	F-7
TP709	E-5
Adjustment	
VR701	E-4
VR741	E-5
VR751	D-9
VR7660	A-2
T703	D-7
T704	E-8
T711	C-8
Connector	
P701	F-13
P702	D-13
P703	C-13

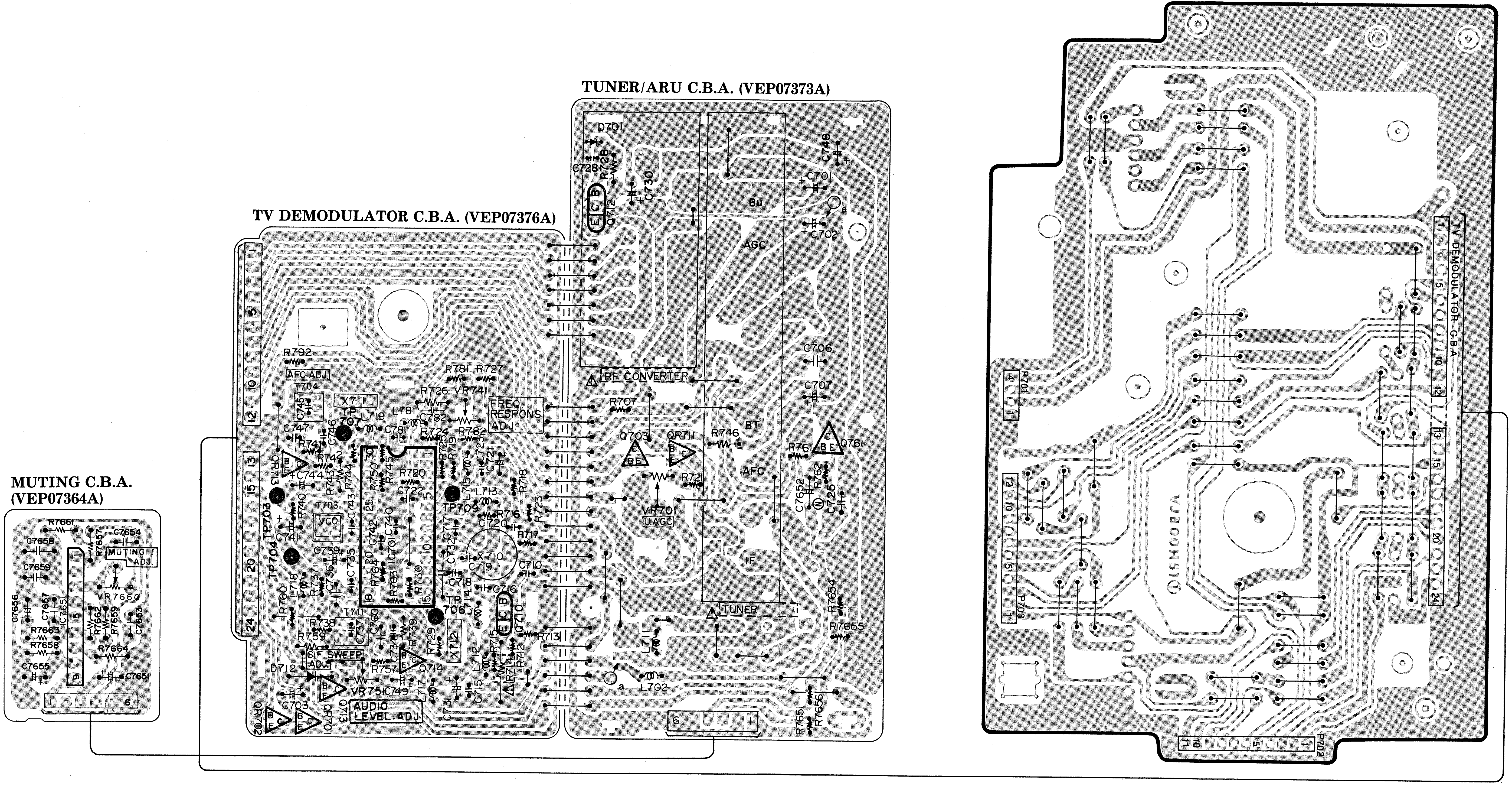
ADDRESS INFORMATION

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

3-50. TV DEMODULATOR INTERFACE C.B.A. (VEP00H51C: NV-D80B), TV DEMODULATOR C.B.A. (VEP07376A: NV-D80B) & TUNER/ARU C.B.A. (VEP07373A: NV-D80B)


MUTING C.B.A. (VEP07364A)

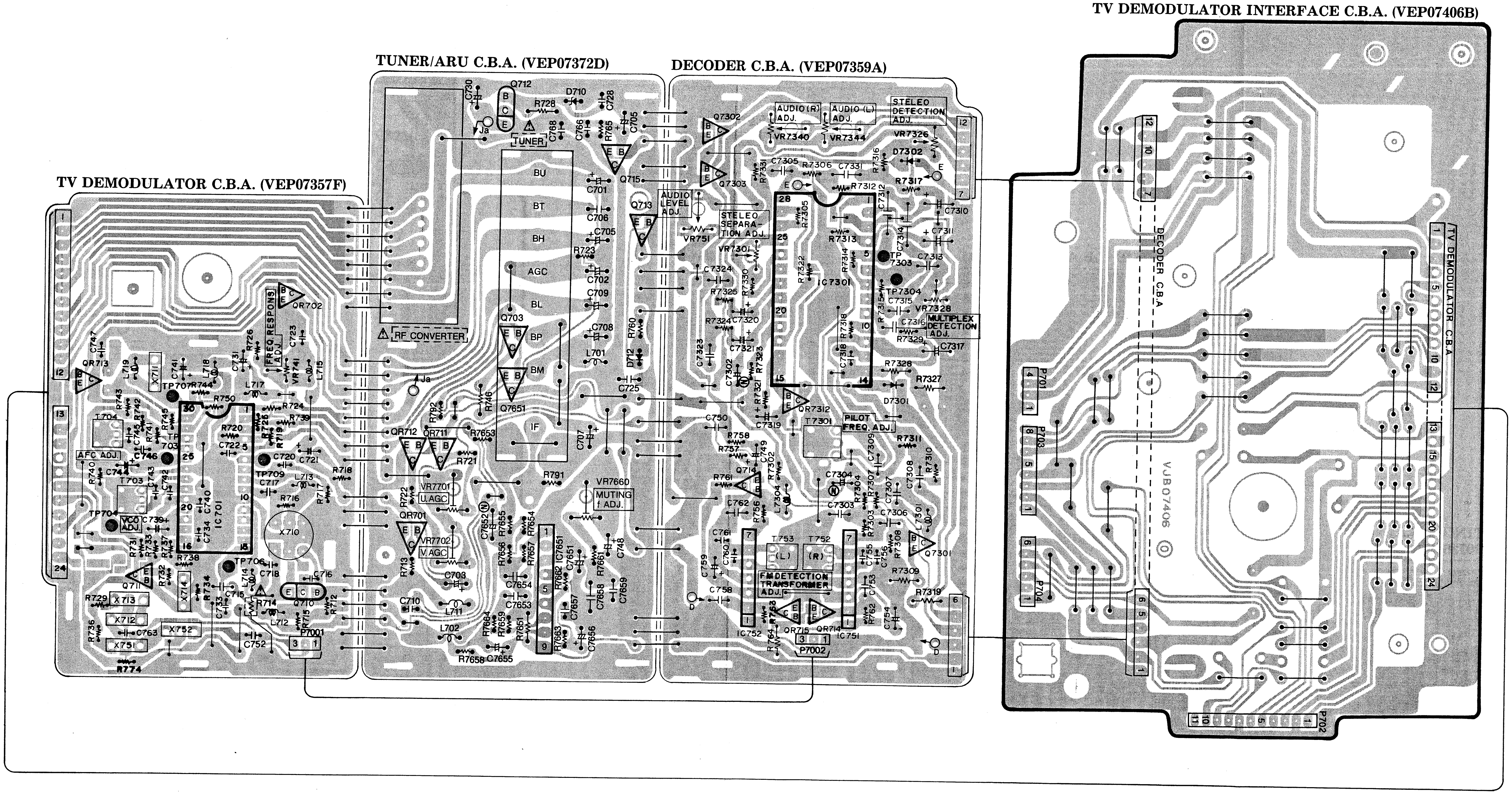
TV DEMODULATOR C.B.A. (VEP07376A)

TUNER/ARU C.B.A. (VEP07373A)

TV DEMODULATOR INTERFACE C.B.A. (VEP00H51C)

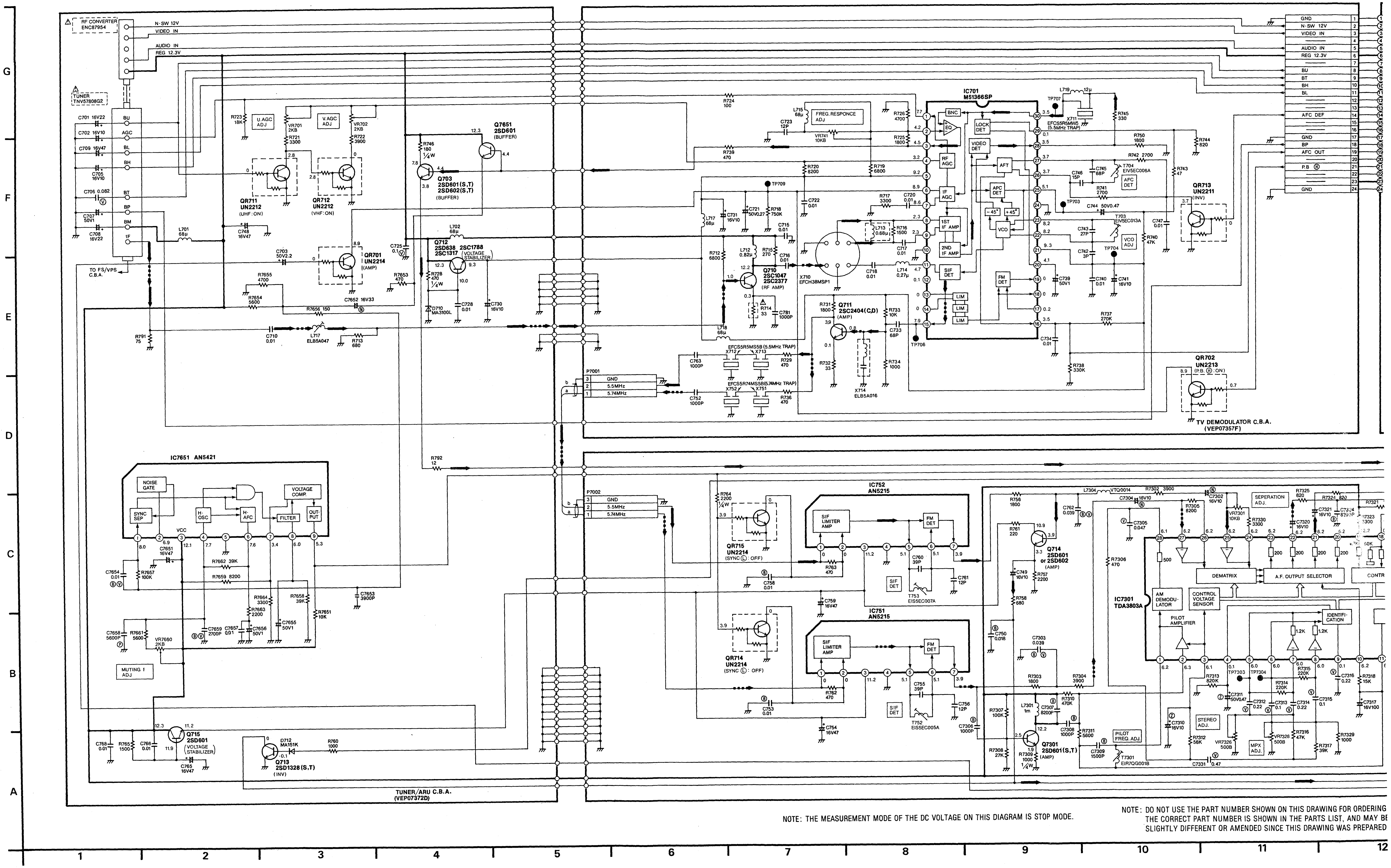
R7661
C7654
C7658
R7657
MUTING ADJ.
C7659
VR7660
C7656
C7657
IC7651
R7662
R7659
C7653
R7663
R7658
R7664
C7655
C7651
R792
AFC ADJ
T704
C745
X711
TP707
L719
L781
R781
R727
R726
VR741
C782
R724
R782
FREQ. RESPONS ADJ.
C747
C746
C781
R741
R742
QR713
C744
R743
R744
R745
R750
R720
C722
R725
R719
L715
C721
C723
R718
TP709
L713
R716
R723
C720
R740
T703
VCO
C743
C742
C740
C717
C732
X710
R717
C719
C710
TP703
C741
C739
C735
TP704
C736
R737
L718
R764
IC701
R763
R730
C718
L714
C716
Q710
TP706
R760
T711
C737
C760
R738
R759
C734
R739
R729
X712
L712
R715
R714
R713
R712
SIF SWEEP ADJ.
D712
R757
Q714
VR751
C749
L717
C731
C715
C703
AUDIO LEVEL ADJ
QR702
QR701
Q713
D701
R728
C728
C730
C748
C701
Q712
E C B
Bu
AGC
a
C702
RF CONVERTER
C706
C707
R707
Q703
QR711
R746
BT
Q761
R761
R762
C7652
C725
R721
VR701
U.AGC
AFC
IF
TUNER
R7654
R7655
L711
L702
R7651
R7656
TV DEMODULATOR C.B.A.
P701
P703
P702
VJB00H51①
1
5
10
12
13
15
20
24
6

3-51. TV DEMODULATOR INTERFACE C.B.A. (VEP07406B: NV-D80EV), TV DEMODULATOR C.B.A. (VEP07357F: NV-D80EV) & TUNER/ARU C.B.A. (VEP07372D: NV-D80EV)


TV DEMODULATOR INTERFACE C.B.A. (VEP07406B)
TUNER/ARU C.B.A. (VEP07372D)
DECODER C.B.A. (VEP07359A)
TV DEMODULATOR C.B.A. (VEP07357F)
TUNER
RF CONVERTER
BU
BT
BH
AGC
BL
BP
BM
IF
AUDIO (R) ADJ.
AUDIO (L) ADJ.
STELEO DETECTION ADJ.
AUDIO LEVEL ADJ.
STELEO SEPARATION ADJ.
MULTIPLEX DETECTION ADJ.
PILOT FREQ. ADJ.
FM DETECTION TRANSFORMER ADJ.
MUTING f ADJ.
U.AGC
V.AGC
FREQ. RESPONS ADJ.
AFC ADJ.
VCO ADJ.
IC701
IC7301
IC7651
IC751
IC752
P7001
P7002
P701
P702
P703
P704
DECODER C.B.A
TV DEMODULATOR C.B.A
VJB07406

3-52. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-D80EV)

VIDEO SIGNAL PATH AUDIO MAIN SIGNAL PATH AUDIO SU

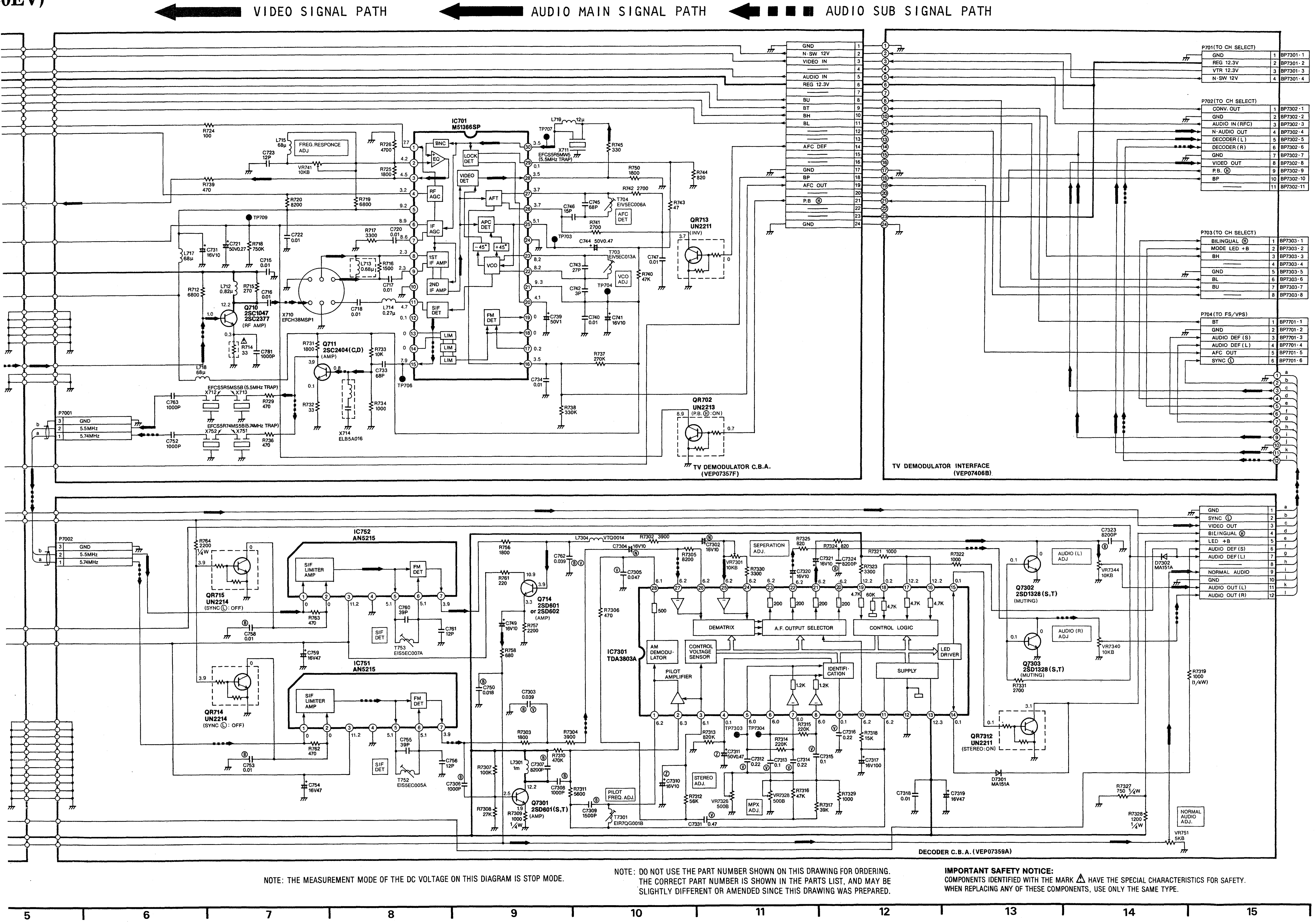


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
RF CONVERTER ENC67954
TUNER TNV57808G2
N-SW 12V
VIDEO IN
AUDIO IN
REG 12.3V
BU
AGC
BL
BH
BT
BP
BM
IF
TO FS/VPS C.B.A.
U.AGC ADJ
V.AGC ADJ
VR701 2KB
VR702 2KB
QR711 UN2212 (UHF:ON)
QR712 UN2212 (VHF:ON)
Q7651 2SD601 (BUFFER)
Q703 2SD601(S,T) 2SD602(S,T) (BUFFER)
Q712 2SD638 2SC1788 2SC1317 (VOLTAGE STABILIZER)
QR701 UN2214 (AMP)
D710 MA3100L
L717 ELB5A047
IC701 M51366SP
FREQ. RESPONCE ADJ
VR741 10KB
TP709
Q710 2SC1047 2SC2377 (RF AMP)
X710 EFCH38MSP1
Q711 2SC2404(C,D) (AMP)
X714 ELB5A016
EFCS5R5MS5B (5.5MHz TRAP) X712 X713
EFCS5R74MS5B (5.74MHz TRAP) X752 X751
P7001
GND
5.5MHz
5.74MHz
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
IF AGC
1ST IF AMP
2ND IF AMP
SIF DET
LIM
AFT
APC DET
VCO
FM DET
AFC DET
VCO ADJ
X711 EFCS5R5MW5 (5.5MHz TRAP)
T704 EIV5EC006A
T703 EIV5EC013A
TP707
TP703
TP704
TP706
QR713 UN2211 (INV)
QR702 UN2213 (P.B. Ⓡ:ON)
TV DEMODULATOR C.B.A. (VEP07357F)
GND
N-SW 12V
VIDEO IN
AUDIO IN
REG 12.3V
BU
BT
BH
BL
AFC DEF
GND
BP
AFC OUT
P.B Ⓡ
GND
IC7651 AN5421
NOISE GATE
VOLTAGE COMP.
SYNC SEP
H-OSC
H-AFC
FILTER
OUT-PUT
VCC
VR7660 2KB
MUTING 1 ADJ
Q715 2SD601 (VOLTAGE STABILIZER)
D712 MA151K
Q713 2SD1328(S,T) (INV)
TUNER/ARU C.B.A. (VEP07372D)
P7002
IC752 AN5215
IC751 AN5215
SIF LIMITER AMP
FM DET
SIF DET
QR715 UN2214 (SYNC Ⓛ: OFF)
QR714 UN2214 (SYNC Ⓛ: OFF)
T753 EIS5EC007A
T752 EIS5EC005A
Q714 2SD601 or 2SD602 (AMP)
Q7301 2SD601(S,T) (AMP)
T7301 EIR7QG001B
IC7301 TDA3803A
AM DEMODU-LATOR
CONTROL VOLTAGE SENSOR
PILOT AMPLIFIER
PILOT FREQ. ADJ
SEPERATION ADJ.
DEMATRIX
A.F. OUTPUT SELECTOR
IDENTIFI-CATION
STEREO ADJ.
MPX ADJ.
VR7301 10KB
VR7326 500B
VR7328 500B

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED

0EV)


VIDEO SIGNAL PATH
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
IC701 M51366SP
IC752 AN5215
IC751 AN5215
IC7301 TDA3803A
Q710 2SC1047 2SC2377 (RF AMP)
Q711 2SC2404(C,D) (AMP)
Q714 2SD601 or 2SD602 (AMP)
Q7301 2SD601(S,T) (AMP)
Q7302 2SD1328(S,T) (MUTING)
Q7303 2SD1328(S,T) (MUTING)
QR713 UN2211 (INV)
QR702 UN2213 (P.B. Ⓗ: ON)
QR715 UN2214 (SYNC Ⓛ: OFF)
QR714 UN2214 (SYNC Ⓛ: OFF)
QR7312 UN2211 (STEREO: ON)
SIF LIMITER AMP
FM DET
SIF DET
DEMATRIX
A.F. OUTPUT SELECTOR
CONTROL LOGIC
LED DRIVER
IDENTIFI-CATION
SUPPLY
AM DEMODU-LATOR
CONTROL VOLTAGE SENSOR
PILOT AMPLIFIER
STEREO ADJ.
MPX ADJ.
PILOT FREQ. ADJ.
SEPERATION ADJ.
AUDIO (L) ADJ
AUDIO (R) ADJ
NORMAL AUDIO ADJ.
FREQ. RESPONCE ADJ
P701 (TO CH SELECT)
P702 (TO CH SELECT)
P703 (TO CH SELECT)
P704 (TO FS/VPS)
P7001
P7002
TV DEMODULATOR C.B.A. (VEP07357F)
TV DEMODULATOR INTERFACE (VEP07406B)
DECODER C.B.A. (VEP07359A)
5
6
7
8
9
10
11
12
13
14
15

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

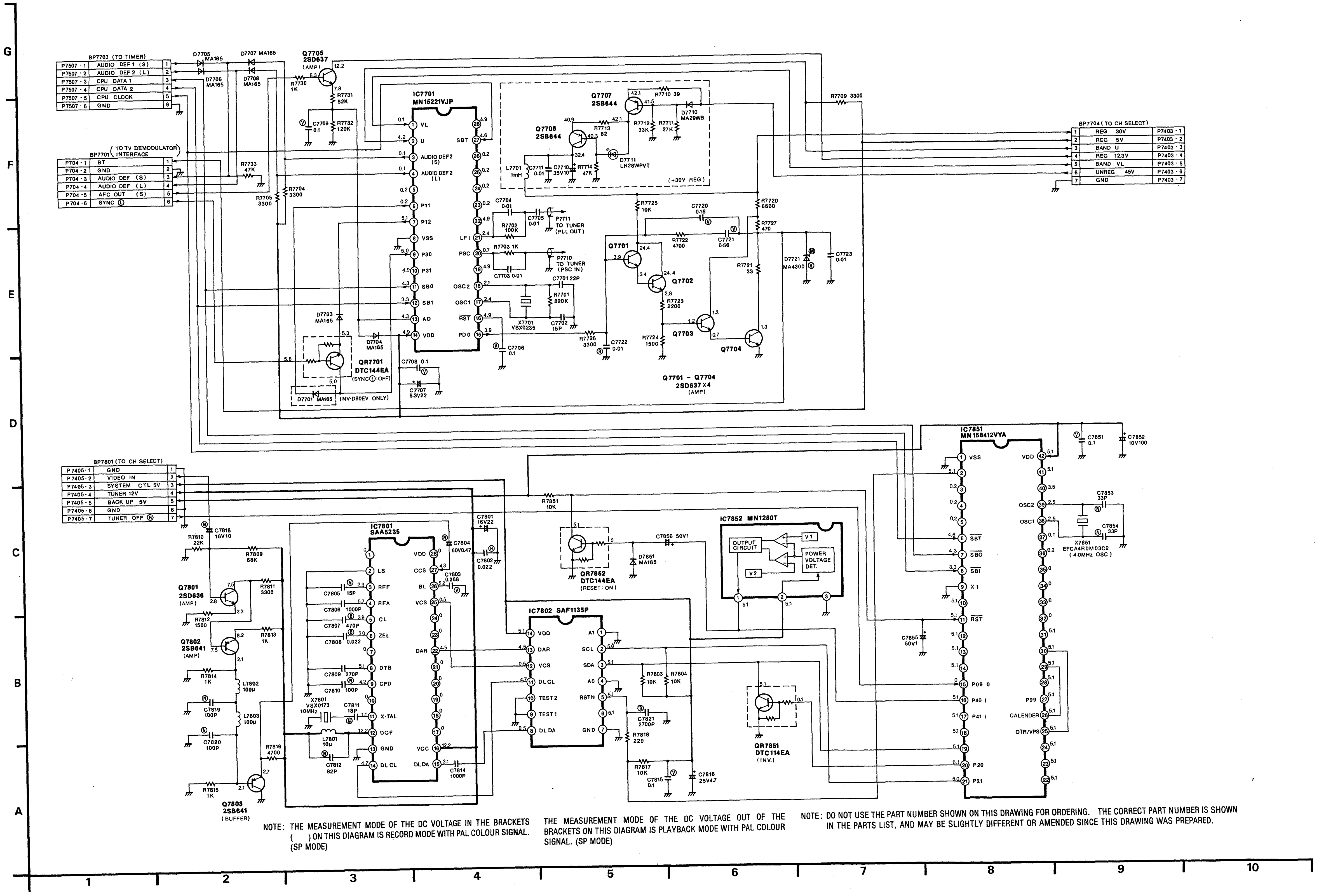
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

TV DEMODULATOR SCHEMATIC (NV-D80EV)	
Transistor	
Q703	F-4
Q710	E-7
Q711	E-8
Q712	F-4
Q713	A-3
Q714	C-9
Q715	A-2
Q7301	A-9
Q7302	C-13
Q7303	B-13
Transistor & Resistor	
QR701	E-3
QR702	E-11
QR711	F-3
QR712	F-3
QR713	F-10
QR714	B-7
QR715	C-7
QR7312	B-13
Integrated Circuit	
IC701	G-9
IC751	B-8
IC752	C-8
IC7301	C-10
IC7651	D-2
Test Point	
TP703	F-9
TP707	G-9
TP709	F-7
TP7303	B-11
TP7304	B-11
Adjustment	
VR701	G-3
VR702	G-3
VR741	F-7
VR751	A-14
VR7301	C-11
VR7326	A-11
VR7328	A-11
VR7340	C-14
VR7344	C-14
VR7660	B-2
T703	F-10
T704	F-10
T752	B-8
T753	C-8
T7301	A-10
X717	E-3
Connector	
P701	G-15
P702	G-15
P703	F-15
P704	E-15
P7001	D-5
P7002	C-5

ADDRESS INFORMATION

Next Page:
F.S. TUNER & VPS Section

3-53. FREQUENCY SYNTHESIZER TUNER & VPS SCHEMATIC DIAGRAM (NV-D80EG/EV)



G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
BP7703 (TO TIMER)
P7507 · 1 AUDIO DEF 1 (S) 1
P7507 · 2 AUDIO DEF 2 (L) 2
P7507 · 3 CPU DATA 1 3
P7507 · 4 CPU DATA 2 4
P7507 · 5 CPU CLOCK 5
P7507 · 6 GND 6
BP7701 (TO TV DEMODULATOR INTERFACE)
P704 · 1 BT 1
P704 · 2 GND 2
P704 · 3 AUDIO DEF (S) 3
P704 · 4 AUDIO DEF (L) 4
P704 · 5 AFC OUT (S) 5
P704 · 6 SYNC Ⓛ 6
D7705 MA165
D7706 MA165
D7707 MA165
D7708 MA165
Q7705 2SD637 (AMP)
R7730 1K
R7731 82K
C7709 0.1
R7732 120K
R7733 47K
R7704 3300
R7705 3300
IC7701 MN15221VJP
VL
U
AUDIO DEF2 (S)
AUDIO DEF2 (L)
P11
P12
VSS
P30
P31
SBO
SBI
AD
VDD
SBT
LF I
PSC
OSC2
OSC1
RST
PDO
Q7707 2SB644
Q7706 2SB644
R7710 39
D7710 MA29WB
R7711 27K
R7712 33K
R7713 82
D7711 LN28WPVT
L7701 1mH
C7711 0.01
C7710 35V10
R7714 47K
(+30V REG)
R7709 3300
C7704 0.01
C7705 0.01
R7702 100K
P7711 TO TUNER (PLL OUT)
R7703 1K
P7710 TO TUNER (PSC IN)
C7703 0.01
C7701 22P
R7701 820K
X7701 VSX0235
C7702 15P
R7726 3300
C7706 0.1
C7708 0.1
C7707 6.3V22
D7703 MA165
D7704 MA165
QR7701 DTC144EA (SYNC Ⓛ OFF)
D7701 MA165 (NV-D80EV ONLY)
R7725 10K
C7720 0.18
R7720 6800
R7727 470
R7722 4700
C7721 0.56
Q7701
Q7702
R7721 33
D7721 MA4300
C7723 0.01
R7723 2200
Q7703
Q7704
R7724 1500
C7722 0.01
Q7701 – Q7704 2SD637 X4 (AMP)
BP7704 (TO CH SELECT)
1 REG 30V P7403 · 1
2 REG 5V P7403 · 2
3 BAND U P7403 · 3
4 REG 12.3V P7403 · 4
5 BAND VL P7403 · 5
6 UNREG 45V P7403 · 6
7 GND P7403 · 7
BP7801 (TO CH SELECT)
P7405 · 1 GND 1
P7405 · 2 VIDEO IN 2
P7405 · 3 SYSTEM CTL 5V 3
P7405 · 4 TUNER 12V 4
P7405 · 5 BACK UP 5V 5
P7405 · 6 GND 6
P7405 · 7 TUNER OFF Ⓗ 7
C7818 16V10
R7810 22K
R7809 68K
Q7801 2SD636 (AMP)
R7811 3300
R7812 1500
Q7802 2SB641 (AMP)
R7813 1K
R7814 1K
L7802 100μ
C7819 100P
L7803 100μ
C7820 100P
R7816 4700
R7815 1K
Q7803 2SB641 (BUFFER)
IC7801 SAA5235
LS
RFF
RFA
CL
ZEL
DTB
CFD
X-TAL
OCF
GND
DL CL
VDD
CCS
BL
VCS
DAR
VCC
DL DA
C7805 15P
C7806 1000P
C7807 470P
C7808 0.022
C7809 270P
C7810 100P
X7801 VSX0173 10MHz
C7811 18P
L7801 10μ
C7812 82P
C7801 16V22
C7804 50V0.47
C7802 0.022
C7803 0.068
C7814 1000P
IC7802 SAF1135P
VDD
DAR
VCS
DLCL
TEST2
TEST1
DLDA
A1
SCL
SDA
A0
RSTN
GND
R7851 10K
QR7852 DTC144EA (RESET: ON)
C7856 50V1
D7851 MA165
IC7852 MN1280T
OUTPUT CIRCUIT
POWER VOLTAGE DET.
V1
V2
R7803 10K
R7804 10K
C7821 2700P
R7818 220
R7817 10K
C7815 0.1
C7816 25V4.7
QR7851 DTC114EA (INV.)
IC7851 MN158412VYA
VSS
SBT
SBO
SBI
X1
RST
P09 0
P40 I
P41 I
P20
P21
VDD
OSC2
OSC1
P99
CALENDER
OTR/VPS
C7851 0.1
C7852 10V100
C7853 33P
C7854 33P
X7851 EFCA4R0M03C2 (4.0MHz OSC)
C7855 50V1

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

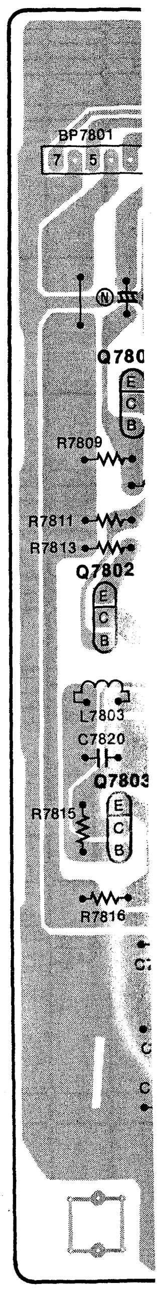
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

FREQUENCY SYNTHESIZER TUNER & VPS SCHEMATIC	
Transistor	
Q7701	E-5
Q7702	E-6
Q7703	E-6
Q7704	E-6
Q7705	G-3
Q7706	F-4
Q7707	F-5
Q7801	C-2
Q7802	B-2
Q7803	A-3
Transistor & Resistor	
QR7701	D-3
QR7851	A-6
QR7852	C-5
Integrated Circuit	
IC7701	F-4
IC7801	C-3
IC7802	B-5
IC7851	D-8
IC7852	C-6
Connector	
BP7701	F-1
BP7703	G-1
BP7704	F-9
BP7801	D-1

ADDRESS INFORMATION

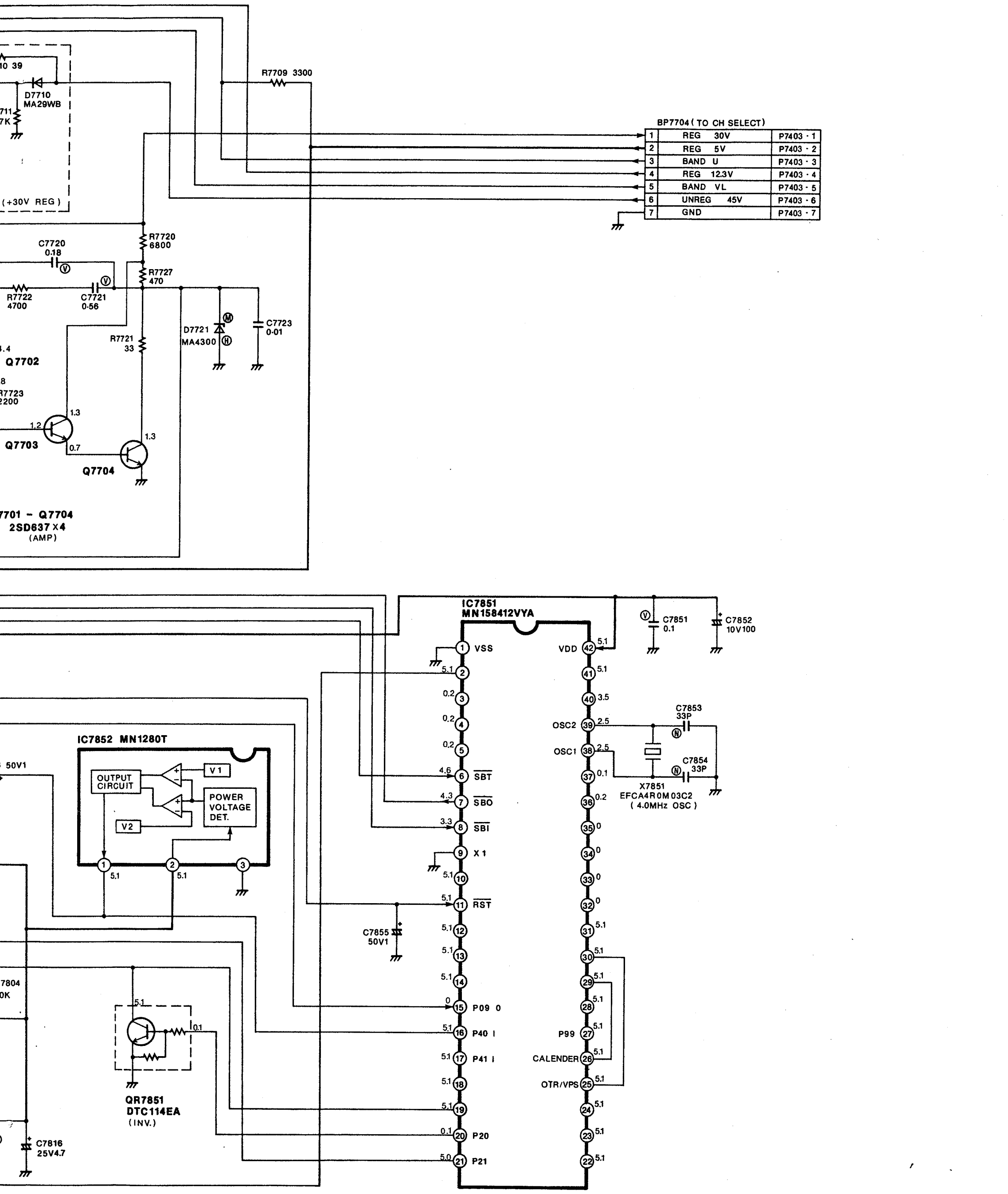
3-54. F

(V



BP7801
7
5
Q780
E
C
B
R7809
R7811
R7813
Q7802
E
C
B
L7803
C7820
Q7803
R7815
E
C
B
R7816

DIAGRAM (NV-D80EG/EV)


R7709 3300
D7710 MA29WB
(+30V REG)
BP7704 (TO CH SELECT)
1 REG 30V P7403 - 1
2 REG 5V P7403 - 2
3 BAND U P7403 - 3
4 REG 12.3V P7403 - 4
5 BAND VL P7403 - 5
6 UNREG 45V P7403 - 6
7 GND P7403 - 7
C7720 0.18
R7720 6800
R7727 470
R7722 4700
C7721 0.56
R7721 33
D7721 MA4300
C7723 0.01
Q7702
R7723 2200
Q7703
Q7704
Q7701 - Q7704 2SD637×4 (AMP)
IC7851 MN158412VYA
VSS
VDD
OSC2
OSC1
SBT
SBO
SBI
X1
RST
P09 0
P40 I
P41 I
P20
P21
P99
CALENDER
OTR/VPS
C7851 0.1
C7852 10V100
C7853 33P
C7854 33P
X7851 EFCA4R0M03C2 (4.0MHz OSC)
IC7852 MN1280T
OUTPUT CIRCUIT
POWER VOLTAGE DET.
V1
V2
C7855 50V1
QR7851 DTC114EA (INV.)
C7816 25V4.7

E DC VOLTAGE OUT OF THE
BACK MODE WITH PAL COLOUR

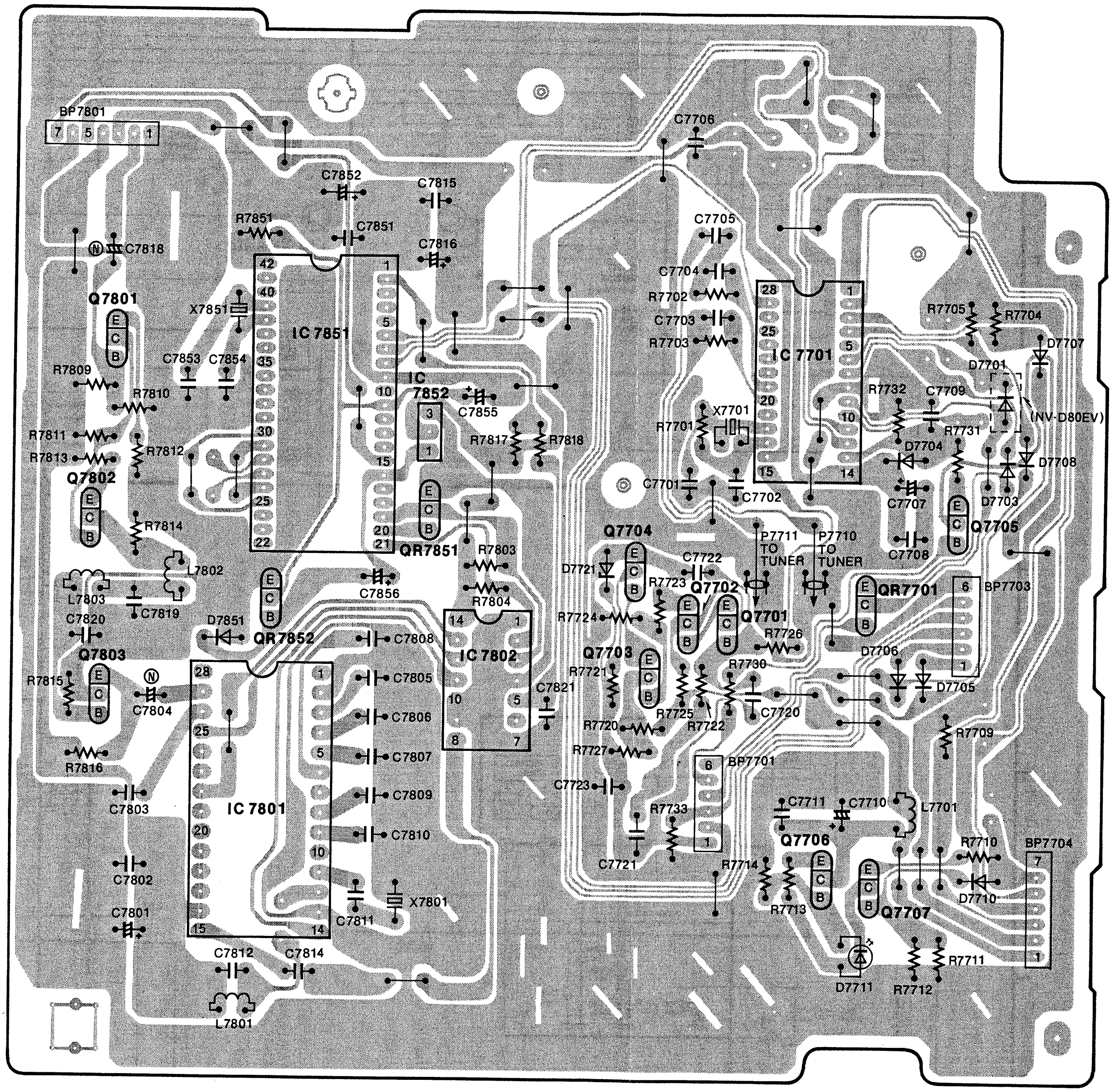
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 7 8 9 10

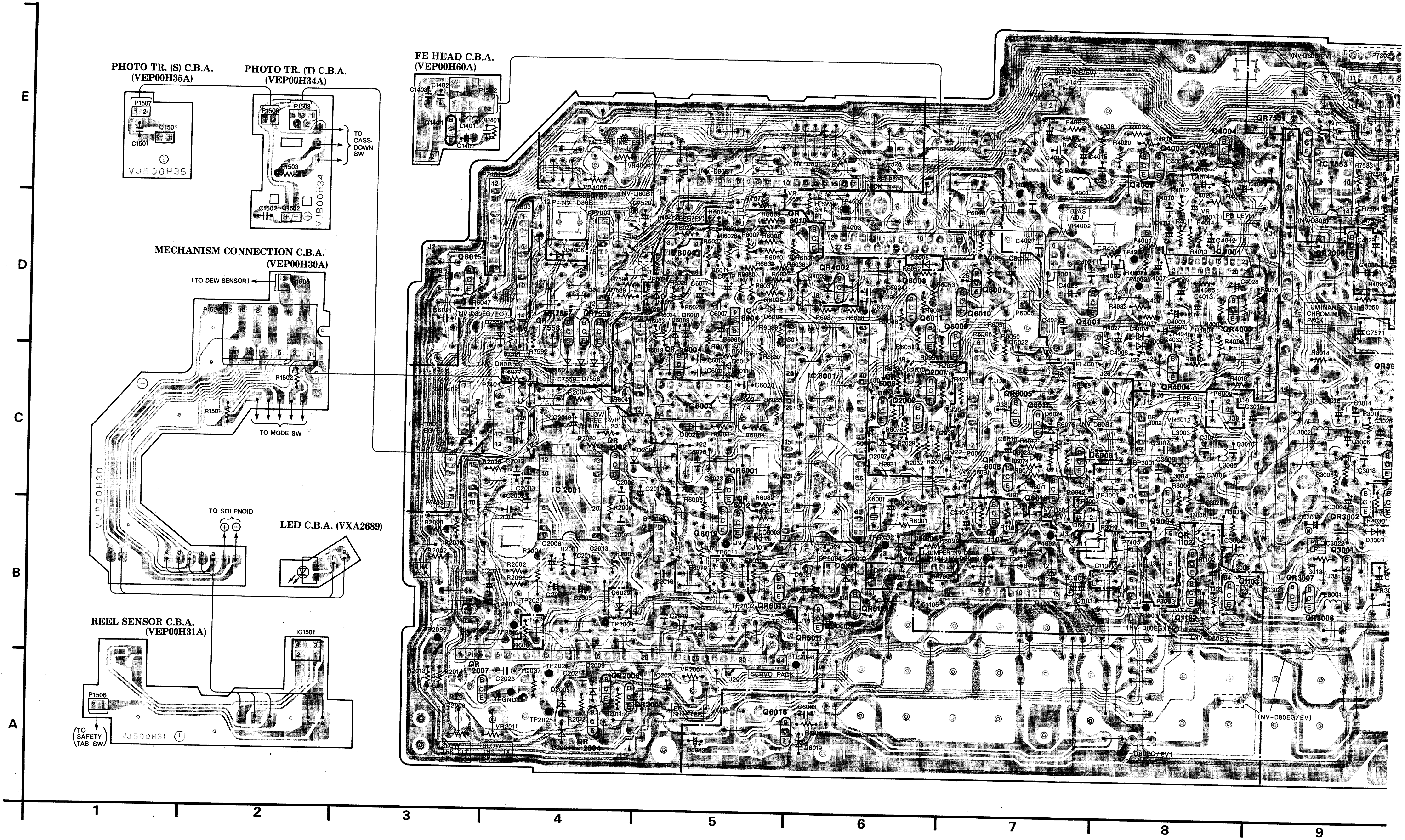
FREQUENCY SYNTHESIZER TUNER & VPS SCHEMATIC	
Transistor	
Q7701	E-5
Q7702	E-6
Q7703	E-6
Q7704	E-6
Q7705	G-3
Q7706	F-4
Q7707	F-5
Q7801	C-2
Q7802	B-2
Q7803	A-3
Transistor & Resistor	
QR7701	D-3
QR7851	A-6
QR7852	C-5
Integrated Circuit	
IC7701	F-4
IC7801	C-3
IC7802	B-5
IC7851	D-8
IC7852	C-6
Connector	
BP7701	F-1
BP7703	G-1
BP7704	F-9
BP7801	D-1

ADDRESS INFORMATION

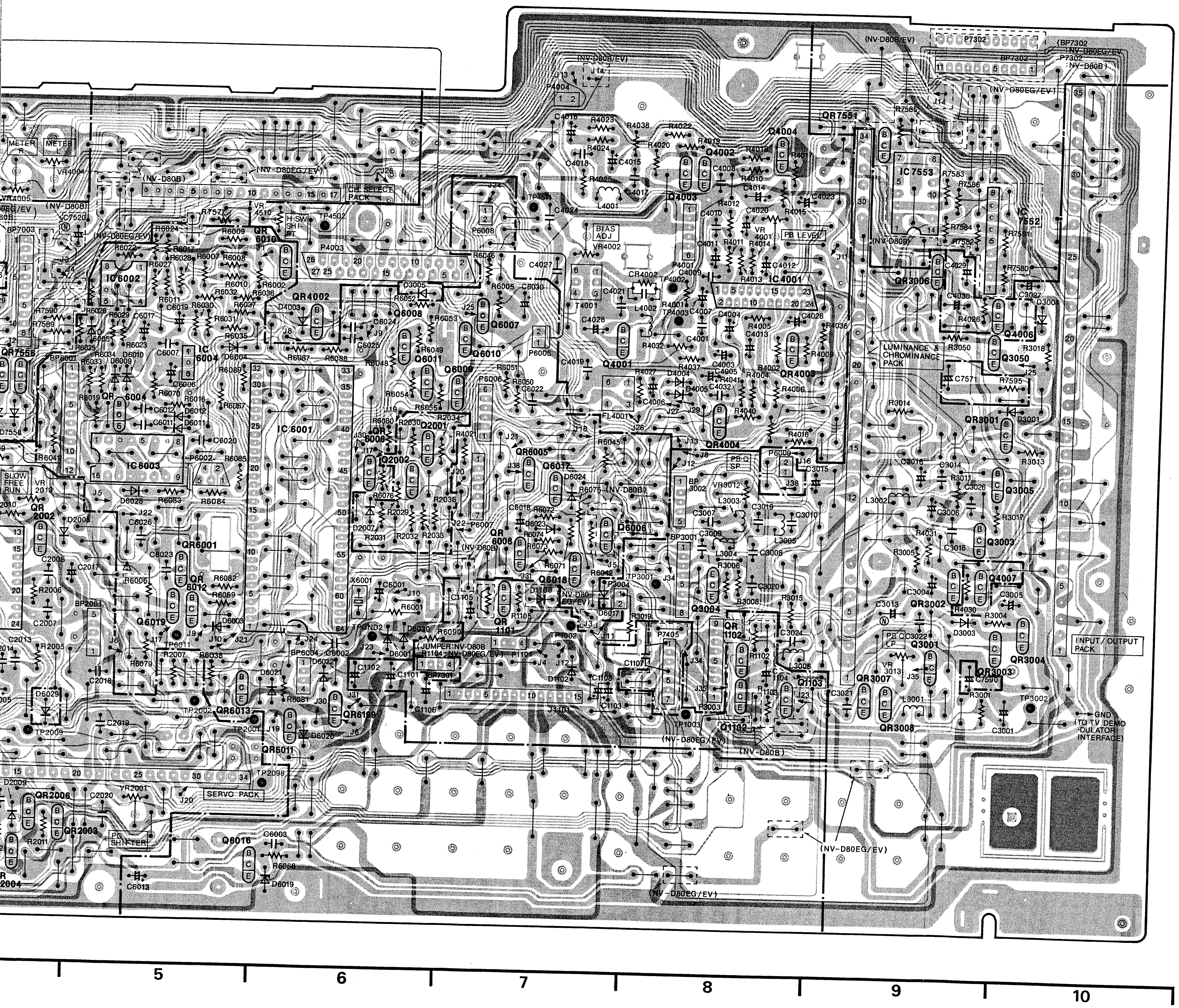
3-54. FREQUENCY SYNTHESIZER TUNER & VPS C.B.A.
(VEP07381A: NV-D80EG) (VEP07381B: NV-D80EV)


BP7801
IC 7851
IC 7852
IC 7701
IC 7801
IC 7802
Q7801
Q7802
Q7803
QR7851
QR7852
Q7704
Q7702
Q7701
Q7703
QR7701
Q7705
Q7706
Q7707
X7851
X7701
X7801
L7801
L7802
L7803
L7701
P7711 TO TUNER
P7710 TO TUNER
BP7701
BP7703
BP7704
D7701
D7704
D7705
D7706
D7707
D7708
D7710
D7711
D7721
D7851
(NV-D80EV)

3-55. MAIN C.B.A. (VEP03410A: NV-D80EG) (VEP03410C: NV-D80B) (VEP03410B: NV-D80EV)



E
D
C
B
A
1
2
3
4
5
6
7
8
9
PHOTO TR. (S) C.B.A.
(VEP00H35A)
VJB00H35
PHOTO TR. (T) C.B.A.
(VEP00H34A)
VJB00H34
TO CASS. DOWN SW
FE HEAD C.B.A.
(VEP00H60A)
MECHANISM CONNECTION C.B.A.
(VEP00H30A)
(TO DEW SENSOR)
TO MODE SW
VJB00H30
TO SOLENOID
LED C.B.A. (VXA2689)
REEL SENSOR C.B.A.
(VEP00H31A)
IC1501
TO SAFETY TAB SW
VJB00H31
IC 2001
IC6001
IC6002
IC6003
IC6004
IC 4001
IC 7553
SERVO PACK
LUMINANCE & CHROMINANCE PACK
CH SELECT PACK
BIAS ADJ
PB LEVEL
SLOW FREE RUN
SLOW TRK FIX
PG SHIFTER
TRK FIX
METER R.
METER L.
(NV-D80B)
(NV-D80EG/EV)
(NV-D80EV)
JUMPER: NV-D80B


METER
(NV-D80B)
(NV-D80EG/EV)
CH SELECT PACK
IC6002
IC6001
IC6003
IC6004
QR4002
Q4001
Q4002
Q4003
Q4004
IC4001
BIAS ADJ
VR4002
PB LEVEL
LUMINANCE & CHROMINANCE PACK
IC7553
QR7551
QR3006
QR3001
Q3003
Q3005
Q4006
Q4007
QR3002
QR3004
Q3050
INPUT/OUTPUT PACK
GND (TO TV DEMO DULATOR INTERFACE)
SLOW/FREE RUN
SERVO PACK
PG SHIFTER
JUMPER:NV-D80B
(NV-D80EG/EV)
(NV-D80B)
5
6
7
8
9
10

MAIN C.B.A. ADDRESS INFORMATION

POWER SUPPLY SECTION	
Transistor	
Q1102	B-8
Q1103	B-9
Transistor & Resistor	
QR1101	B-7
QR1102	B-8
Test Point	
TP1002	B-7
TP1003	B-8
Connector	
J1101	B-7
P1101	B-7

ADDRESS INFORMATION

SYSTEM CONTROL SECTION	
Transistor	
Q1401	E-3
Q1501	E-1
Q1502	D-2
Q6006	C-8
Q6007	D-7
Q6008	D-6
Q6009	D-7
Q6010	D-7
Q6011	D-6
Q6015	D-3
Q6016	A-5
Q6017	C-7
Q6018	C-7
Q6019	B-5
Transistor & Resistor	
QR6001	C-5
QR6004	C-5
QR6005	C-7
QR6006	C-6
QR6008	C-7
QR6010	D-6
QR6011	B-6
QR6012	B-5
QR6013	B-5
QR6199	B-6
Integrated Circuit	
IC1501	B-2
IC6001	C-6
IC6002	D-5
IC6003	C-5
IC6004	D-5
Test Point	
TP6011	B-5
TP GND 2	B-6
Connector	
BP6001	D-5
BP6004	B-6
P1502	E-3
P1503	E-2
P1504	D-2
P1505	D-2
P1506	A-1
P1507	E-1
P1508	E-2
P6002	C-5
P6003	D-4
P6005	D-7
P6006	D-7
P6007	C-7
P6008	D-7
P6009	C-8

ADDRESS INFORMATION

SERVO SECTION	
Transistor	
Q2001	C-7
Q2002	C-6
Transistor & Resistor	
QR2002	C-4
QR2003	A-5
QR2004	A-4
QR2006	A-4
QR2007	A-4
Integrated Circuit	
IC2001	C-4
Test Point	
TP2001	B-6
TP2002	B-5
TP2009	B-4
TP2015	B-4
TP2020	B-4
TP2025	A-4
TP2026	A-4
TP2098	A-6
TP2099	B-3
TP GND	A-4
Adjustment	
VR2001	A-5
VR2002	B-3
VR2006	A-3
VR2011	A-4
VR2013	C-4
Connector	
BP2001	B-5
P2002	B-3

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE SECTION	
Transistor	
Q3001	B-9
Q3003	C-10
Q3004	B-8
Q3005	C-10
Q3050	D-10
Transistor & Resistor	
QR3001	D-9
QR3002	C-9
QR3003	B-10
QR3004	B-10
QR3006	D-9
QR3007	B-9
QR3008	B-9
Test Point	
TP3001	C-8
TP3002	B-10
Adjustment	
VR3012	C-8
VR3013	B-9
Connector	
BP3001	C-8
BP3002	C-8
P3003	B-8
P3004	C-8

ADDRESS INFORMATION

AUDIO SECTION	
Transistor	
Q4001	D-8
Q4002	E-8
Q4003	E-8
Q4004	E-8
Q4006	D-10
Q4007	C-10
Transistor & Resistor	
QR4002	D-6
QR4003	D-8
QR4004	C-8
Integrated Circuit	
IC4001	D-8
Test Point	
TP4002	D-8
TP4003	D-8
TP4502	D-6
TP4511	D-7
Adjustment	
VR4001	D-8
VR4002	D-7
VR4004	E-5
VR4005	E-4
VR4510	D-6
Connector	
P4001	D-8
P4003	D-6
P4004	E-7

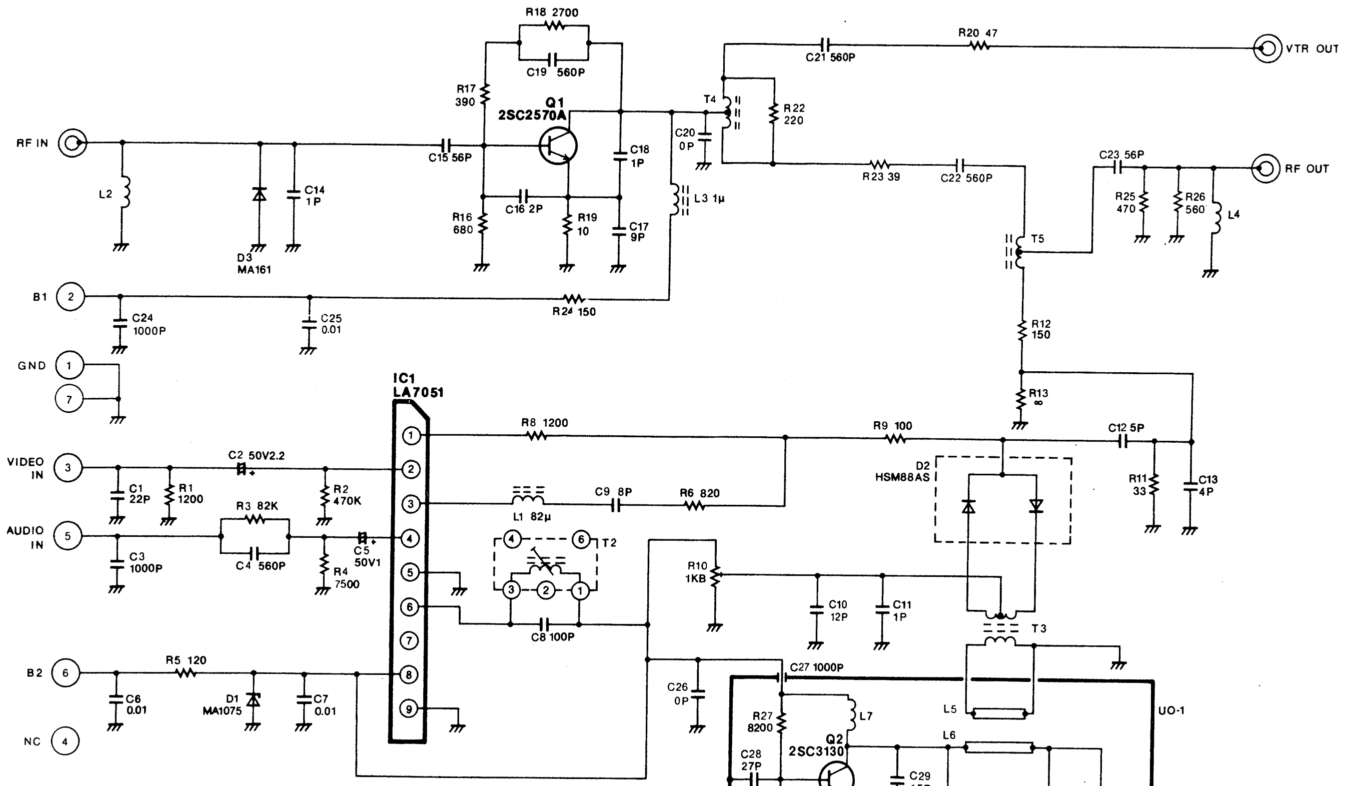
ADDRESS INFORMATION

CH SELECT SECTION	
Transistor & Resistor	
QR7551	E-9
QR7556	D-4
QR7557	D-4
QR7558	D-4
Integrated Circuit	
IC7552	E-10
IC7553	E-9
Connector	
BP7003	D-4
BP7301	B-7
BP7302	E-10
BP7401	E-4
BP7402	C-3
P7302	E-9
P7403	B-3
P7404	C-4
P7405	B-8

ADDRESS INFORMATION

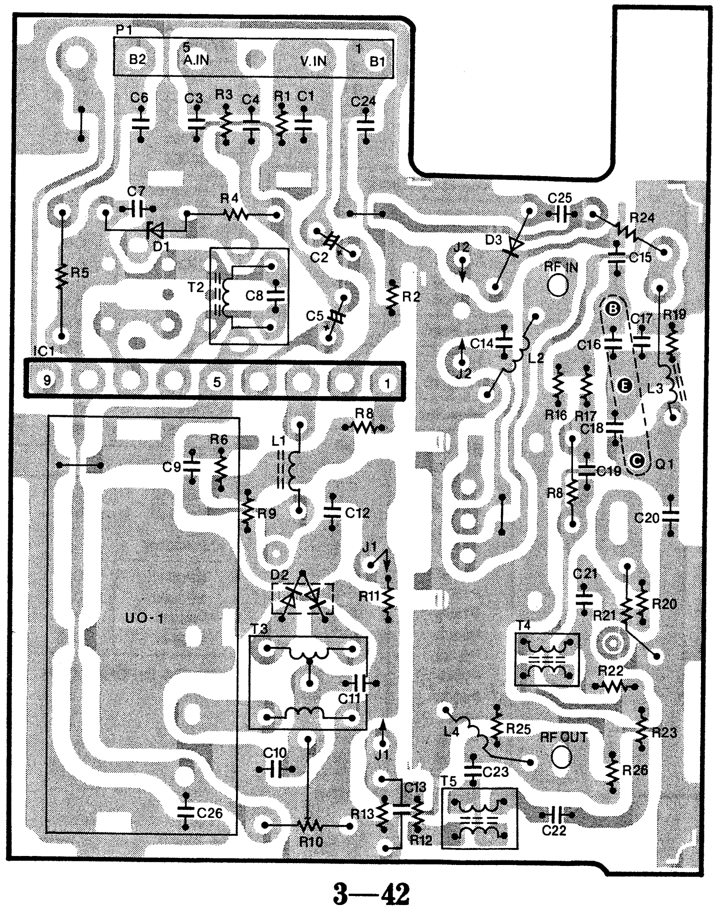
Next Page:
RF CONVERTER Section

3-56. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80EG)

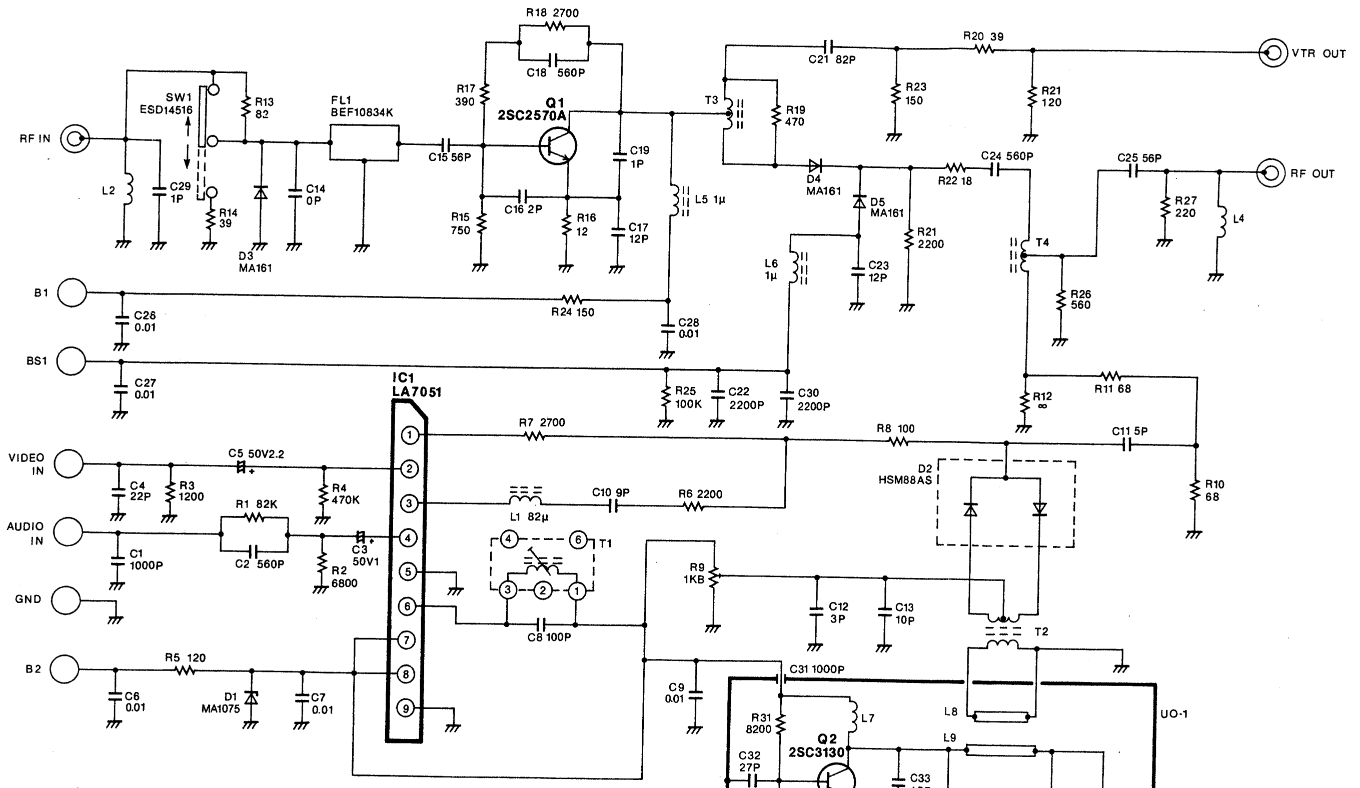

RF IN
VTR OUT
RF OUT
B1 ②
GND ①
⑦
VIDEO IN ③
AUDIO IN ⑤
B2 ⑥
NC ④
Q1 2SC2570A
Q2 2SC3130
IC1 LA7051
D1 MA1075
D2 HSM88AS
D3 MA161
T2
T3
T4
T5
L1 82μ
L2
L3 1μ
L4
L5
L6
L7
UO-1
R1 1200
R2 470K
R3 82K
R4 7500
R5 120
R8 1200
R9 100
R10 1KB
R11 33
R12 150
R13 ∞
R16 680
R17 390
R18 2700
R19 10
R20 47
R22 220
R23 39
R24 150
R25 470
R26 560
R27 8200
R28 8200
R29 390
C1 22P
C2 50V2.2
C3 1000P
C4 560P
C5 50V1
C6 0.01
C7 0.01
C8 100P
C9 8P
C10 12P
C11 1P
C12 5P
C13 4P
C14 1P
C15 56P
C16 2P
C17 9P
C18 1P
C19 560P
C20 0P
C21 560P
C22 560P
C23 56P
C24 1000P
C25 0.01
C26 0P
C27 1000P
C28 27P
C29 1.5P
C30 2P
C31 14P
C32 3P
C33 VC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-57. RF CONVERTER C.B.A. (ENC87956: NV-D80EG)

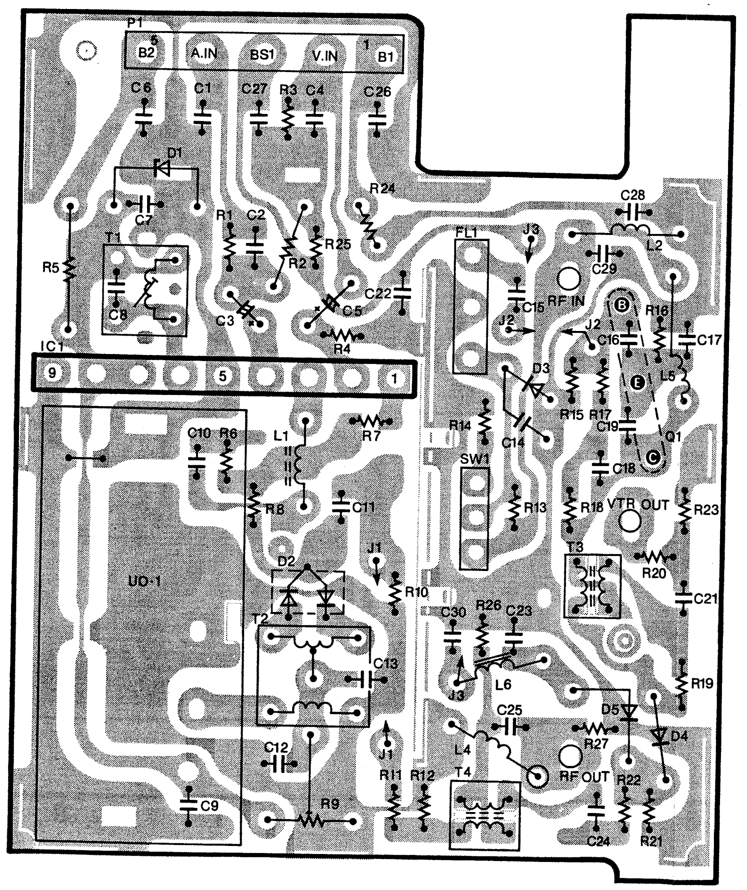

P1
B2
5
A.IN
V.IN
1
B1
IC1
UO-1
RF IN
RF OUT
Q1
T2
T3
T4
T5
D1
D2
D3
J1
J2

3-58. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80B)

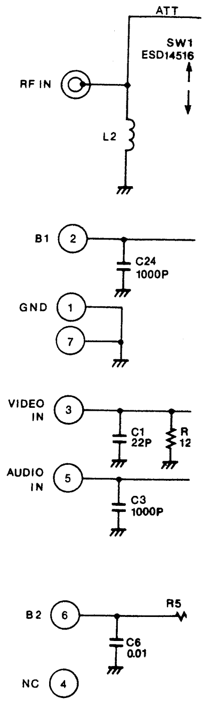

RF IN
VTR OUT
RF OUT
B1
BS1
VIDEO IN
AUDIO IN
GND
B2
SW1 ESD14516
FL1 BEF10834K
Q1 2SC2570A
Q2 2SC3130
IC1 LA7051
D1 MA1075
D2 HSM88AS
D3 MA161
D4 MA161
D5 MA161
T1
T2
T3
T4
L1 82μ
L2
L4
L5 1μ
L6 1μ
L7
L8
L9
UO-1
R1 82K
R2 6800
R3 1200
R4 470K
R5 120
R6 2200
R7 2700
R8 100
R9 1KB
R10 68
R11 68
R12 ∞
R13 82
R14 39
R15 750
R16 12
R17 390
R18 2700
R19 470
R20 39
R21 120
R21 2200
R22 18
R23 150
R24 150
R25 100K
R26 560
R27 220
R31 8200
R32 8200
R33 390
C1 1000P
C2 560P
C3 50V1
C4 22P
C5 50V2.2
C6 0.01
C7 0.01
C8 100P
C9 0.01
C10 9P
C11 5P
C12 3P
C13 10P
C14 0P
C15 56P
C16 2P
C17 12P
C18 560P
C19 1P
C21 82P
C22 2200P
C23 12P
C24 560P
C25 56P
C26 0.01
C27 0.01
C28 0.01
C29 1P
C30 2200P
C31 1000P
C32 27P
C33 1.5P
C34 2P
C35 14P
C36 3P
C37 VC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-59. RF CONVERTER C.B.A. (ENC87952: NV-D80B)


P1
B2
5
A.IN
BS1
V.IN
1
B1
IC1
UO-1
FL1
SW1
RF IN
VTR OUT
RF OUT
Q1
T1
T2
T3
T4

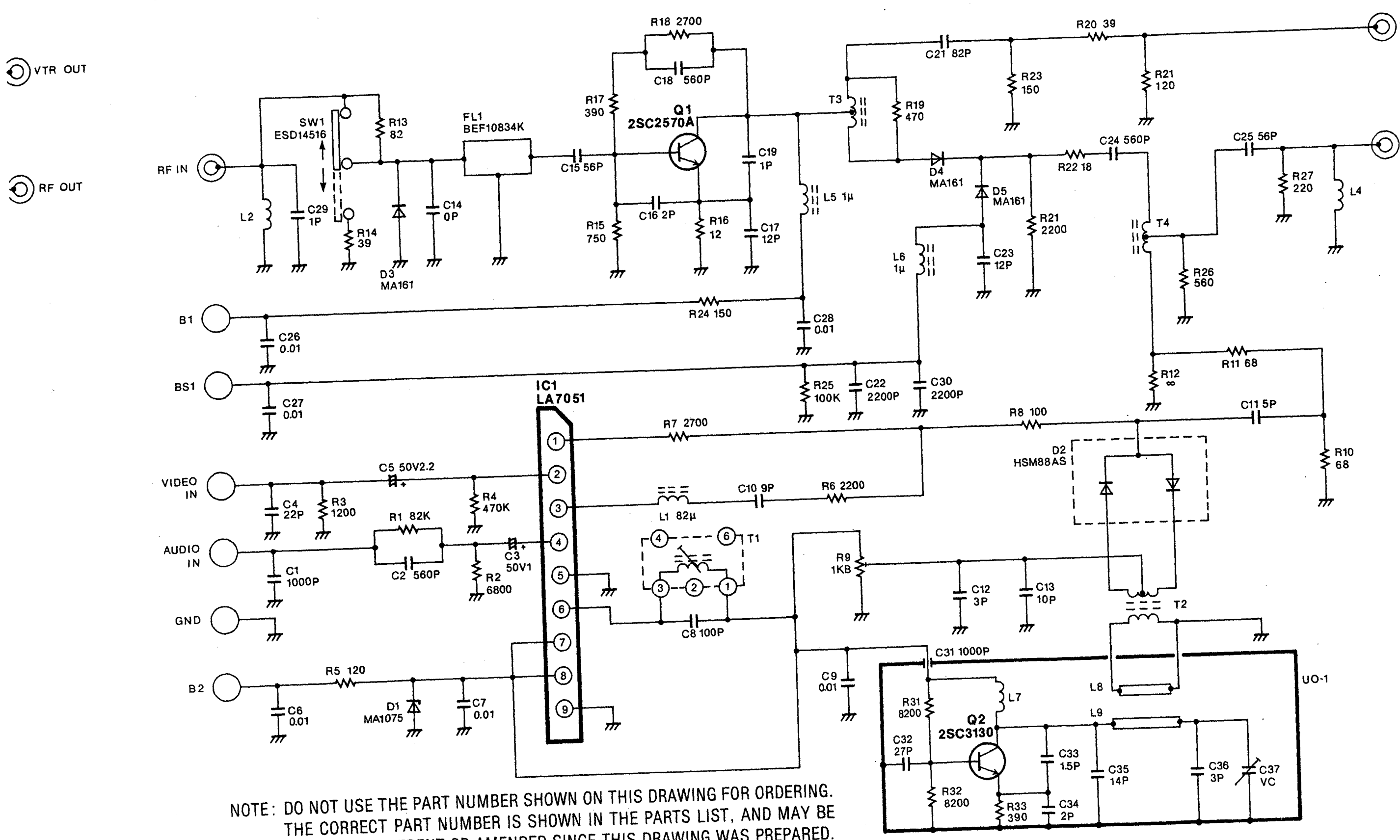
3-60. RF C


ATT
SW1 ESD14516
RF IN
L2
B1 ②
C24 1000P
GND ①
⑦
VIDEO IN ③
C1 22P
AUDIO IN ⑤
C3 1000P
B2 ⑥
R5
C6 0.01
NC ④

NOTE: DO NOT
THE CC
SLIGHT

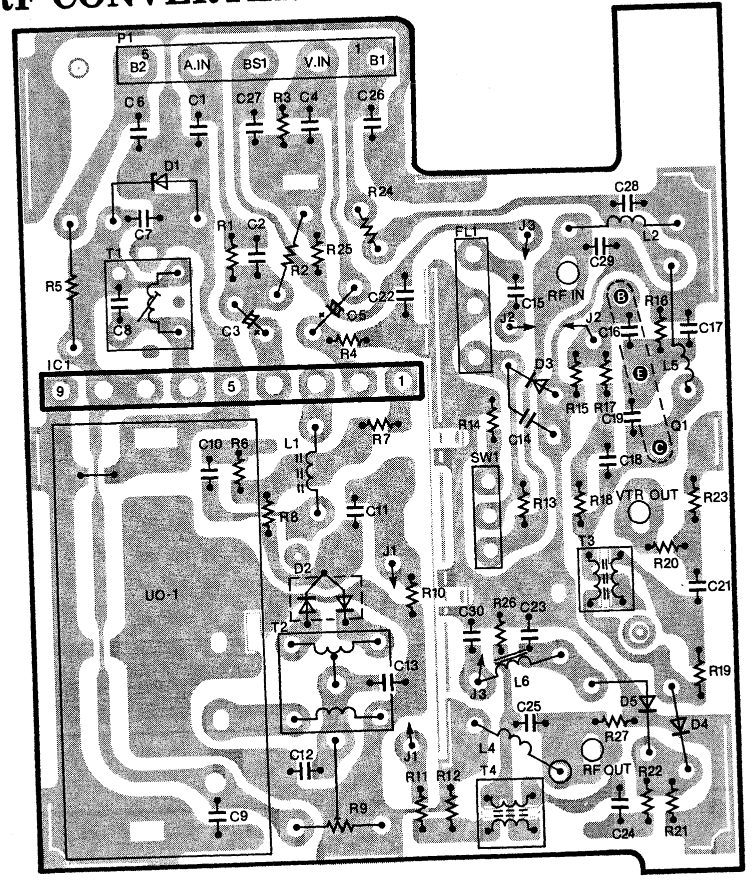
3

3-58. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80B)

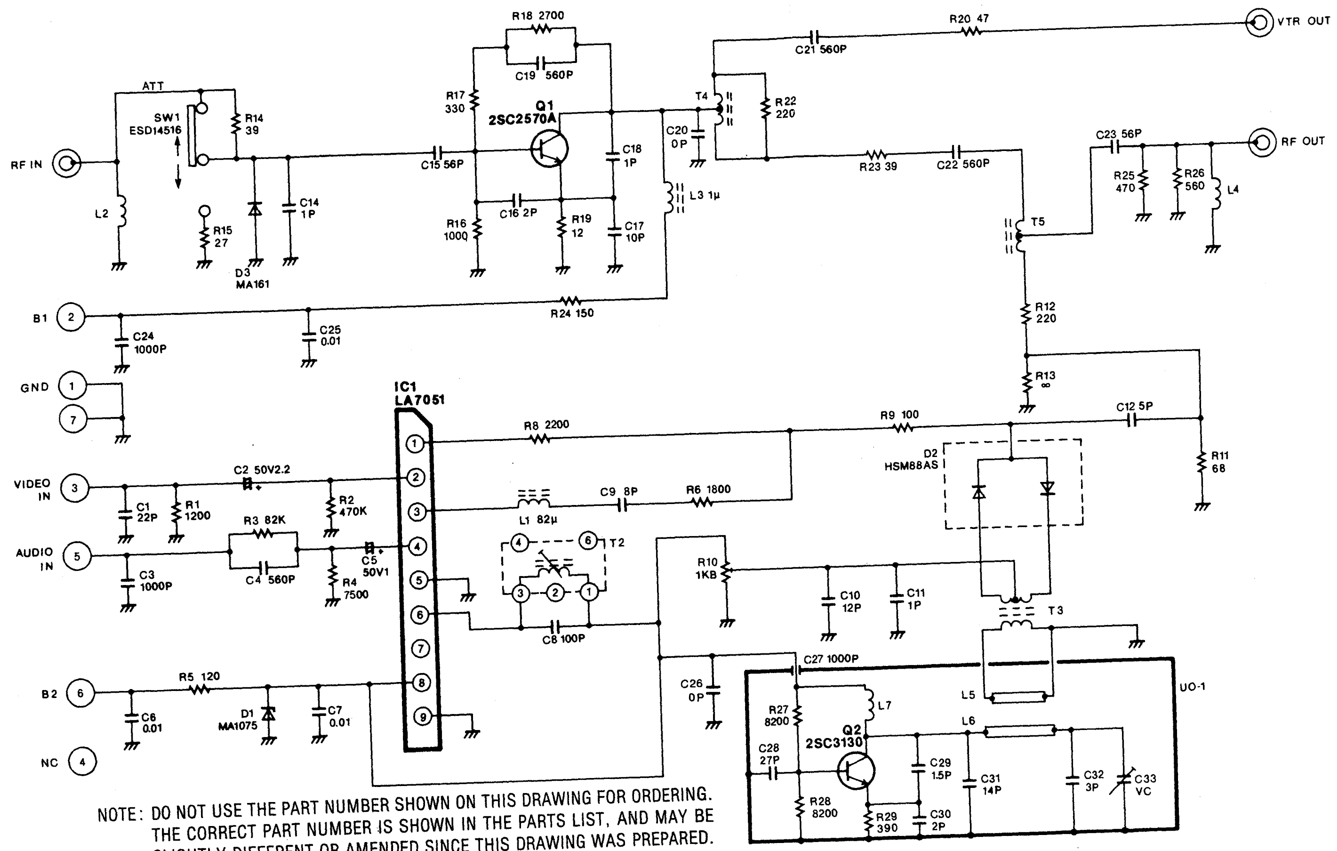

VTR OUT
RF OUT
RF IN
SW1
ESD14516
R13 82
R14 39
C29 1P
C14 0P
L2
D3 MA161
FL1 BEF10834K
C15 56P
R18 2700
C18 560P
R17 390
Q1 2SC2570A
R15 750
C16 2P
R16 12
C17 12P
C19 1P
L5 1μ
T3
R19 470
C21 82P
R20 39
R23 150
R21 120
D4 MA161
D5 MA161
R22 18
C24 560P
R21 2200
L6 1μ
C23 12P
T4
C25 56P
R27 220
L4
R26 560
B1
BS1
C26 0.01
C27 0.01
R24 150
C28 0.01
R25 100K
C22 2200P
C30 2200P
R12 ∞
R11 68
IC1 LA7051
R7 2700
R8 100
C11 5P
R10 68
D2 HSM88AS
VIDEO IN
AUDIO IN
GND
B2
C4 22P
R3 1200
C5 50V2.2
R4 470K
R1 82K
C2 560P
C3 50V1
R2 6800
C1 1000P
L1 82μ
C10 9P
R6 2200
T1
C8 100P
R9 1KB
C12 3P
C13 10P
T2
R5 120
D1 MA1075
C6 0.01
C7 0.01
C9 0.01
C31 1000P
L8
L9
R31 8200
C32 27P
Q2 2SC3130
L7
R32 8200
R33 390
C33 1.5P
C34 2P
C35 14P
C36 3P
C37 VC
UO-1

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-59. RF CONVERTER C.B.A. (ENC87952: NV-D80B)

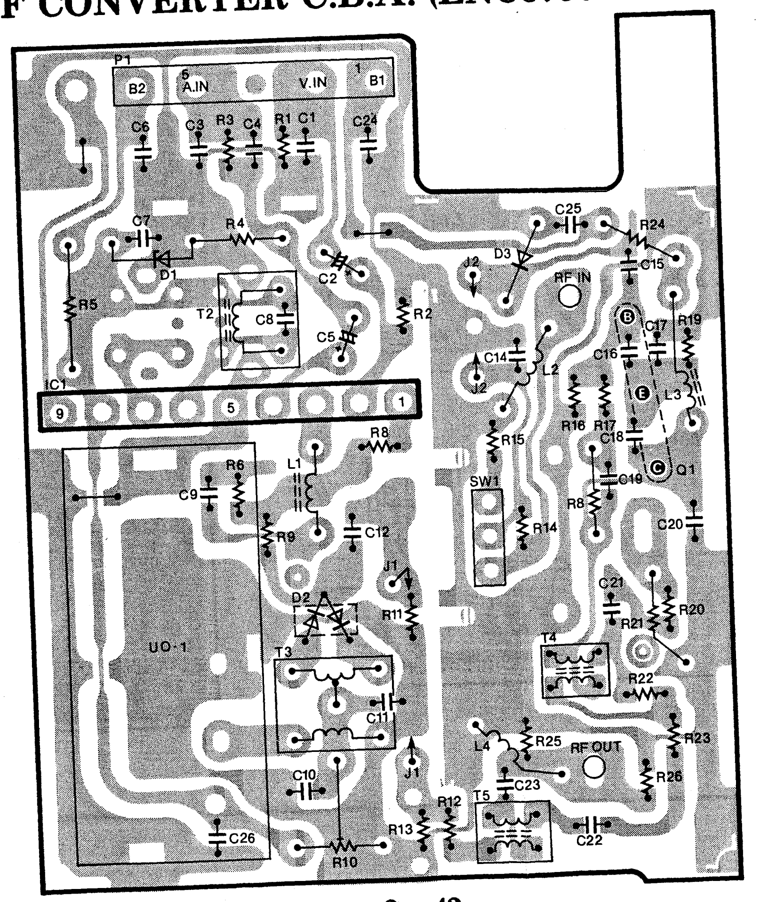

P1
B2
A.IN
BS1
V.IN
B1
C6
C1
C27
R3
C4
C26
D1
C7
T1
C8
R5
IC1
R1
C2
R2
R25
C3
C5
R4
C22
R24
C28
FL1
J3
L2
C29
RF IN
C15
J2
R16
C16
C17
D3
R14
C14
SW1
R15
R17
C19
L5
Q1
C18
R13
R18
VTR OUT
R23
T3
R20
C21
C10
R6
L1
R7
R8
C11
J1
R10
D2
T2
C13
C30
R26
C23
L6
R19
C25
D5
D4
R27
L4
RF OUT
R22
C12
R9
R11
R12
T4
C24
R21
C9
UO-1

3-60. RF CONVERTER SCHEMATIC DIAGRAM (NV-D80EV)

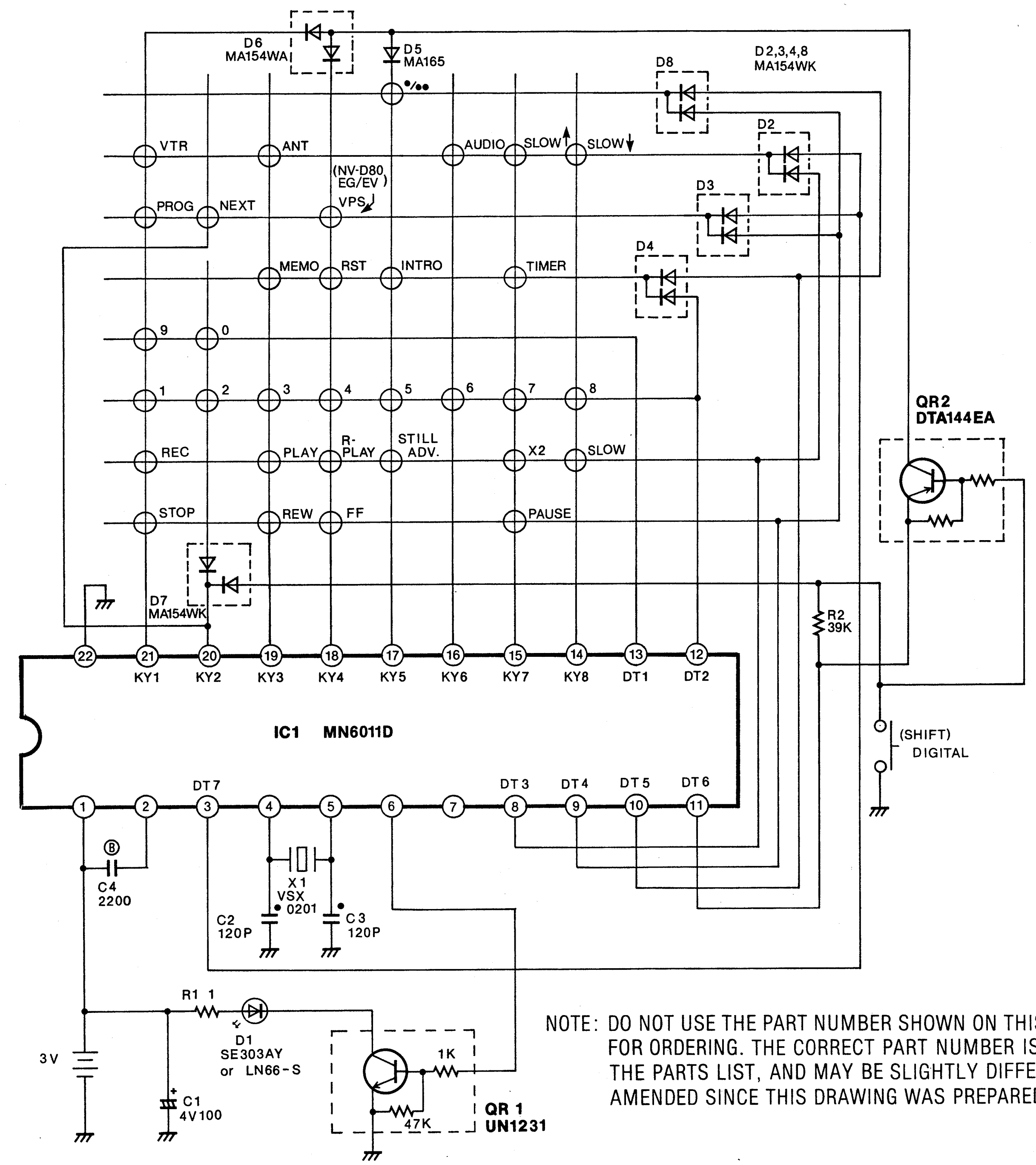

R18 2700
C19 560P
R20 47
VTR OUT
C21 560P
ATT
SW1
ESD14516
R14 39
RF IN
C15 56P
R17 330
Q1 2SC2570A
C18 1P
C20 0P
T4
R22 220
L2
R15 27
D3 MA161
C14 1P
R16 1000
C16 2P
R19 12
C17 10P
L3 1μ
R23 39
C22 560P
C23 56P
R25 470
R26 560
L4
RF OUT
T5
R24 150
R12 220
B1
C24 1000P
C25 0.01
R13 ∞
GND
IC1 LA7051
R8 2200
R9 100
C12 5P
R11 68
D2 HSM88AS
VIDEO IN
C2 50V2.2
C1 22P
R1 1200
R2 470K
R3 82K
L1 82μ
C9 8P
R6 1800
AUDIO IN
C4 560P
C5 50V1
R4 7500
C3 1000P
T2
C8 100P
R10 1KB
C10 12P
C11 1P
T3
B2
R5 120
C6 0.01
D1 MA1075
C7 0.01
C26 0P
C27 1000P
L5
L6
R27 8200
L7
Q2 2SC3130
C28 27P
R28 8200
R29 390
C29 1.5P
C30 2P
C31 14P
C32 3P
C33 VC
UO-1
NC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-61. RF CONVERTER C.B.A. (ENC87954: NV-D80EV)

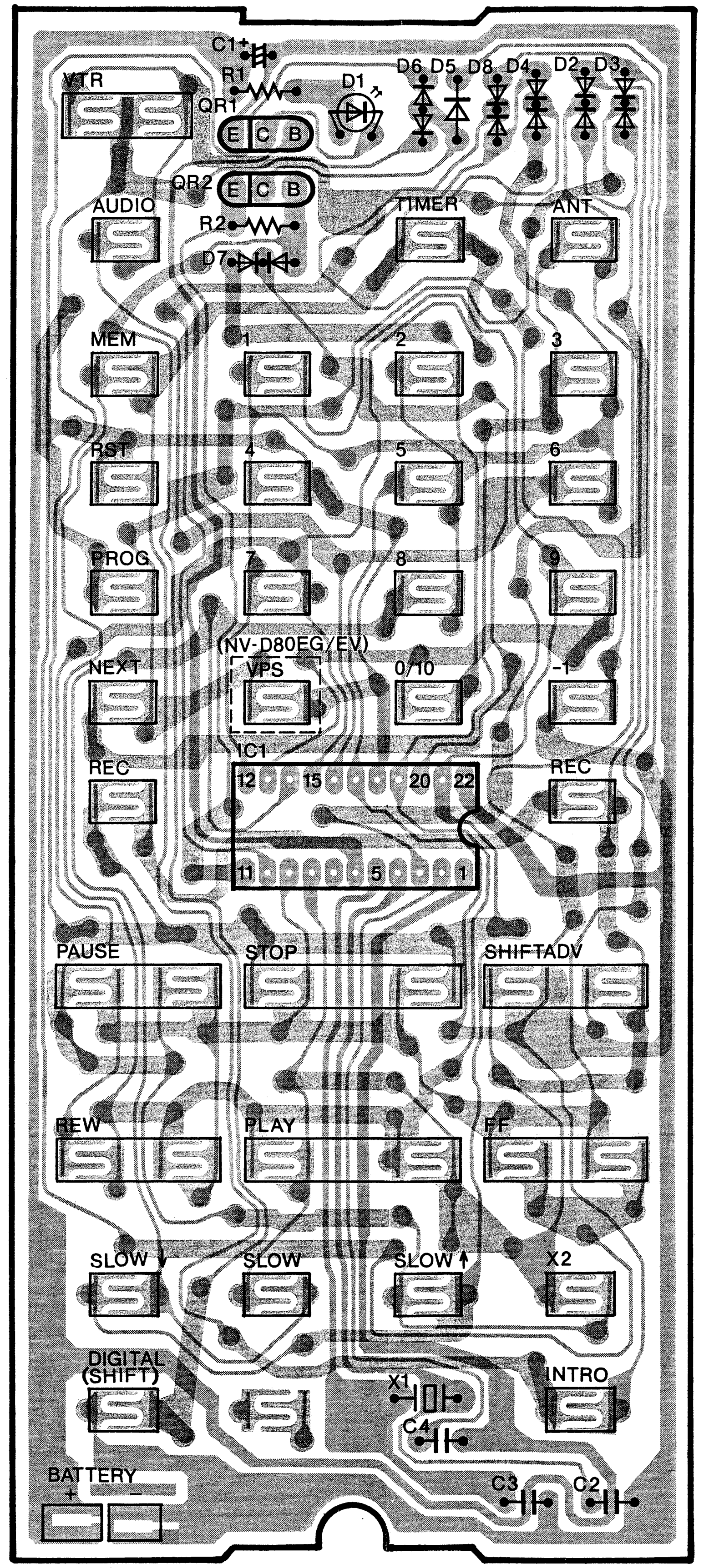

P1
B2
A.IN
V.IN
B1
C6
C3
R3
C4
R1
C1
C24
C7
R4
D1
C25
R24
J2
D3
RF IN
C15
T2
C8
C2
C5
R2
R5
C14
L2
C16
C17
R19
IC1
R6
L1
R8
R15
R16
R17
C18
L3
C9
R9
C12
SW1
R14
C19
Q1
C20
J1
D2
R11
C21
R21
R20
T3
T4
UO-1
C11
R22
L4
R25
RF OUT
R23
C10
J1
C23
R26
R12
T5
R13
C26
R10
C22

3-62. PROGRAMMABLE REMOTE CONTROLLER SCHEMATIC DIAGRAM
—UNIT NO.: VEQ0573 (NV-D80EG/EV), VEQ0574 (NV-D80B)—

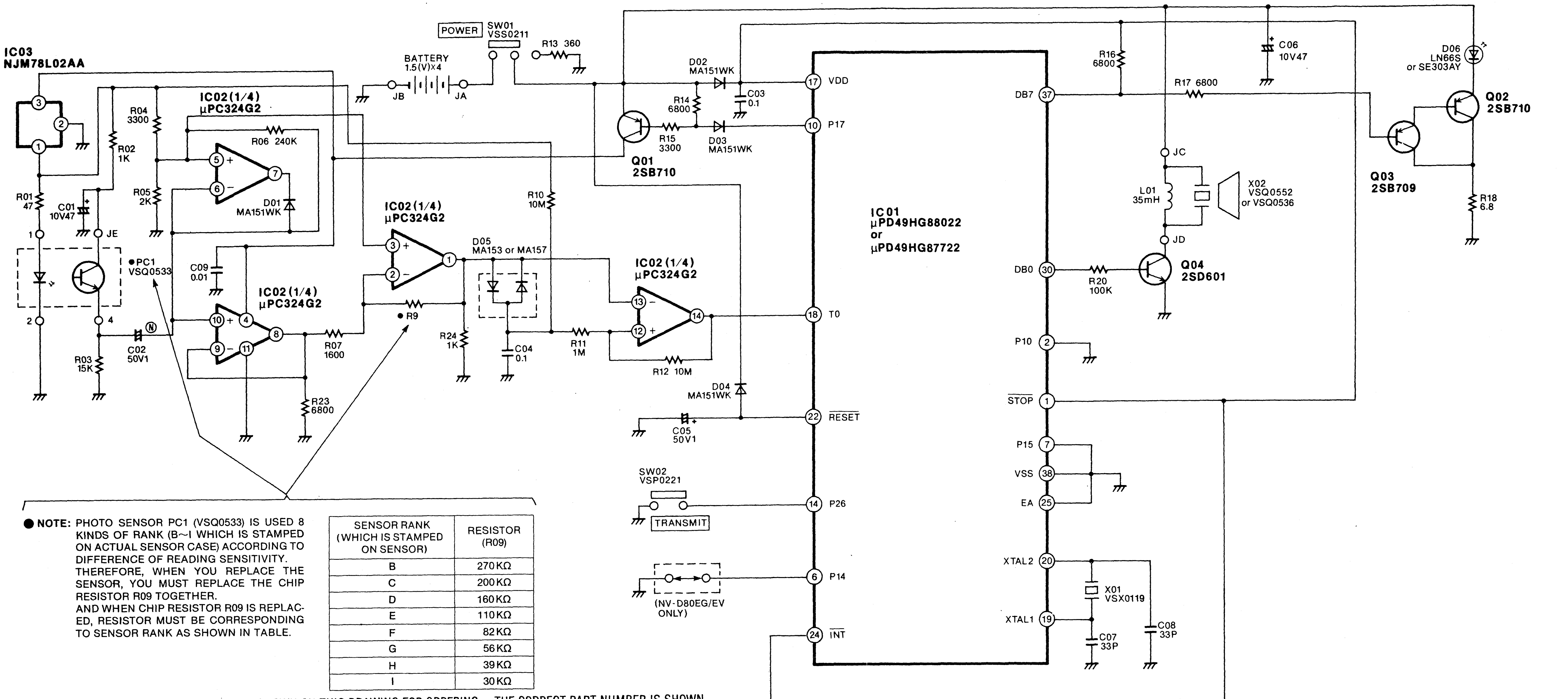

D6
MA154WA
D5
MA165
D8
D2,3,4,8
MA154WK
D2
D3
D4
VTR
ANT
AUDIO
SLOW↑
SLOW↓
(NV-D80
EG/EV)
VPS
PROG
NEXT
MEMO
RST
INTRO
TIMER
9
0
1
2
3
4
5
6
7
8
REC
PLAY
R-PLAY
STILL ADV.
X2
SLOW
STOP
REW
FF
PAUSE
D7
MA154WK
QR2
DTA144EA
R2
39K
(SHIFT)
DIGITAL
KY1
KY2
KY3
KY4
KY5
KY6
KY7
KY8
DT1
DT2
IC1 MN6011D
DT7
DT3
DT4
DT5
DT6
C4
2200
X1
VSX
0201
C2
120P
C3
120P
R1 1
D1
SE303AY
or LN66-S
3V
C1
4V100
1K
47K
QR 1
UN1231

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-63. PROGRAMMABLE REMOTE CONTROLLER C.B.A.
(VEP66008A)


C1
R1
QR1
D1
D6 D5 D8 D4 D2 D3
VTR
E C B
QR2
AUDIO
R2
D7
TIMER
ANT
MEM
1
2
3
RST
4
5
6
PROG
7
8
9
NEXT
(NV-D80EG/EV)
VPS
0/10
-1
REC
IC1
12
15
20
22
11
5
1
REC
PAUSE
STOP
SHIFTADV
REW
PLAY
FF
SLOW↓
SLOW
SLOW↑
X2
DIGITAL
(SHIFT)
X1
C4
INTRO
BATTERY
+
−
C3
C2

3-64. DIGITAL SCANNER SCHEMATIC DIAGRAM —UNIT NO.: VEQ0549 (NV-D80EG/EV), VEQ0540 (NV-D80B)—



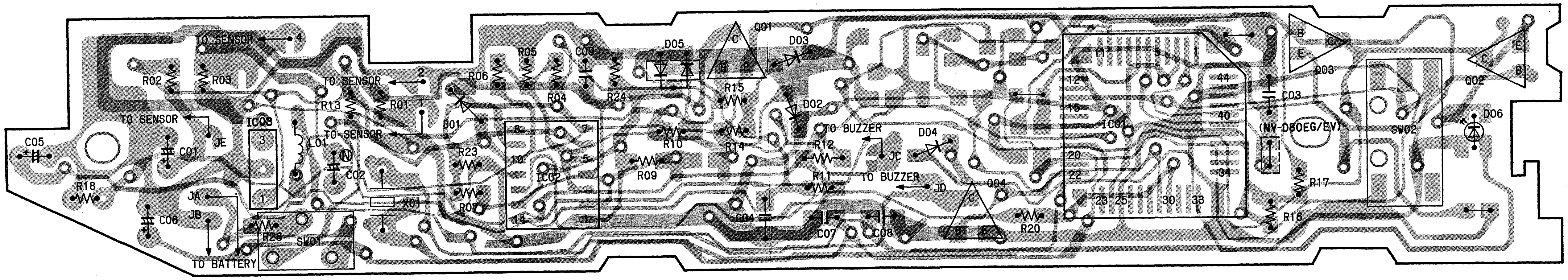
IC03
NJM78L02AA
POWER
SW01
VSS0211
BATTERY
1.5(V)×4
JB
JA
R13 360
R04
3300
R02
1K
IC02(1/4)
μPC324G2
R06 240K
R01
47
C01
10V47
JE
R05
2K
D01
MA151WK
C09
0.01
PC1
VSQ0533
R03
15K
C02
50V1
R07
1600
R23
6800
R9
R24
1K
C04
0.1
D05
MA153 or MA157
R10
10M
R11
1M
R12 10M
Q01
2SB710
R14
6800
R15
3300
D02
MA151WK
C03
0.1
D03
MA151WK
D04
MA151WK
C05
50V1
SW02
VSP0221
TRANSMIT
(NV-D80EG/EV ONLY)
IC01
μPD49HG88022
or
μPD49HG87722
VDD
P17
T0
RESET
P26
P14
INT
DB7
DB0
P10
STOP
P15
VSS
EA
XTAL2
XTAL1
R16
6800
C06
10V47
R17 6800
JC
L01
35mH
X02
VSQ0552
or VSQ0536
JD
R20
100K
Q04
2SD601
X01
VSX0119
C07
33P
C08
33P
D06
LN66S
or SE303AY
Q02
2SB710
Q03
2SB709
R18
6.8

● **NOTE:** PHOTO SENSOR PC1 (VSQ0533) IS USED 8 KINDS OF RANK (B~I WHICH IS STAMPED ON ACTUAL SENSOR CASE) ACCORDING TO DIFFERENCE OF READING SENSITIVITY. THEREFORE, WHEN YOU REPLACE THE SENSOR, YOU MUST REPLACE THE CHIP RESISTOR R09 TOGETHER. AND WHEN CHIP RESISTOR R09 IS REPLACED, RESISTOR MUST BE CORRESPONDING TO SENSOR RANK AS SHOWN IN TABLE.

SENSOR RANK (WHICH IS STAMPED ON SENSOR)	RESISTOR (R09)
B	270KΩ
C	200KΩ
D	160KΩ
E	110KΩ
F	82KΩ
G	56KΩ
H	39KΩ
I	30KΩ

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

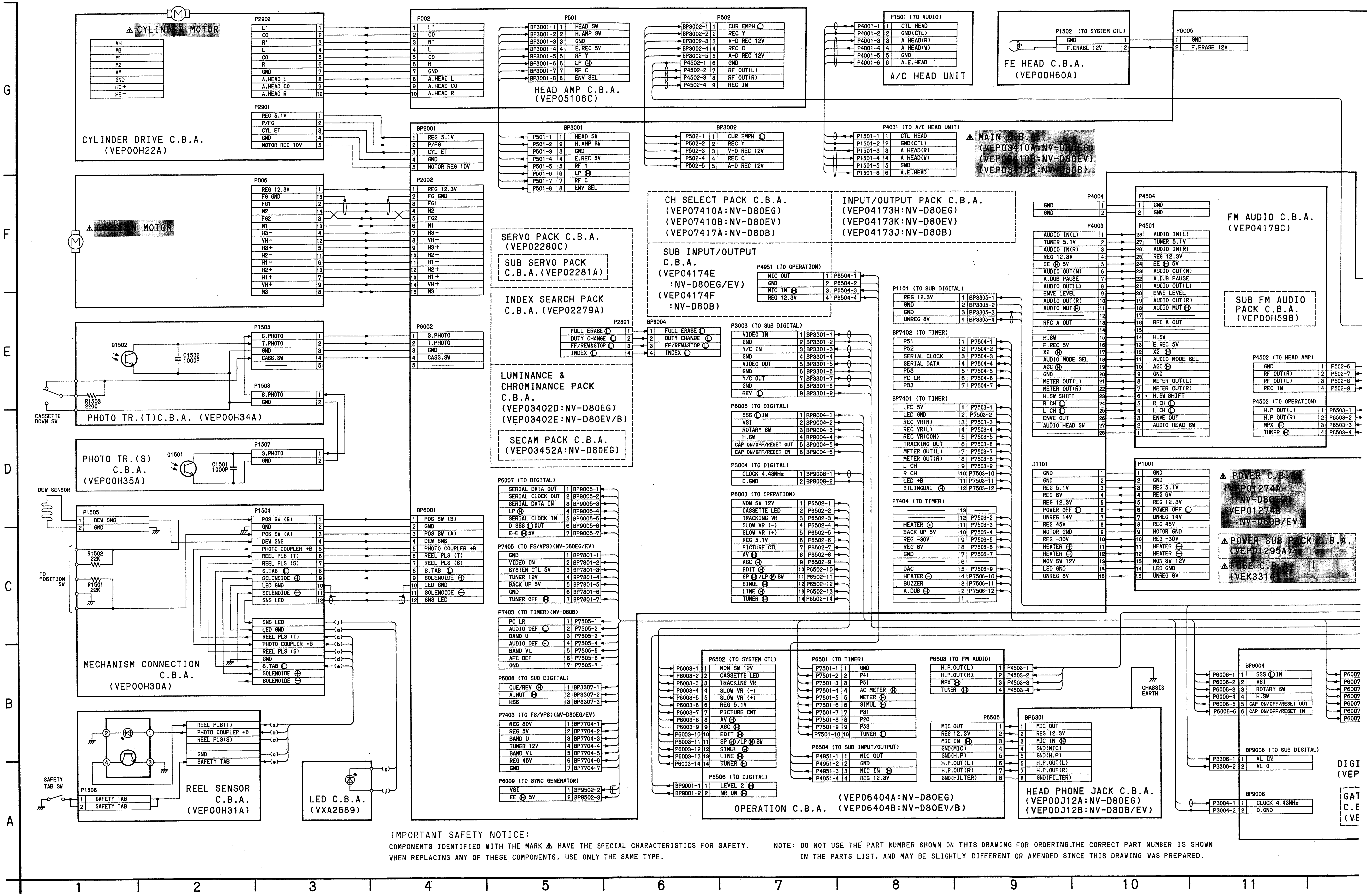
3-65. DIGITAL SCANNER C.B.A. (VEP66019D: NV-D80EG/EV) (VEP66019E: NV-D80B)



TO SENSOR
TO SENSOR
TO SENSOR
TO SENSOR
TO BATTERY
TO BUZZER
TO BUZZER
R02
R03
R13
R01
IC03
L01
C01
JE
C05
R18
C06
JA
JB
R28
SW01
C02
X01
D01
R06
R05
C09
R04
R24
R23
R07
IC02
R09
D05
R10
Q01
D03
R15
R14
D02
R12
R11
C04
C07
C08
D04
JC
JD
Q04
R20
IC01
C03
(NV-D80EG/EV)
Q03
Q02
SW02
D06
R17
R16

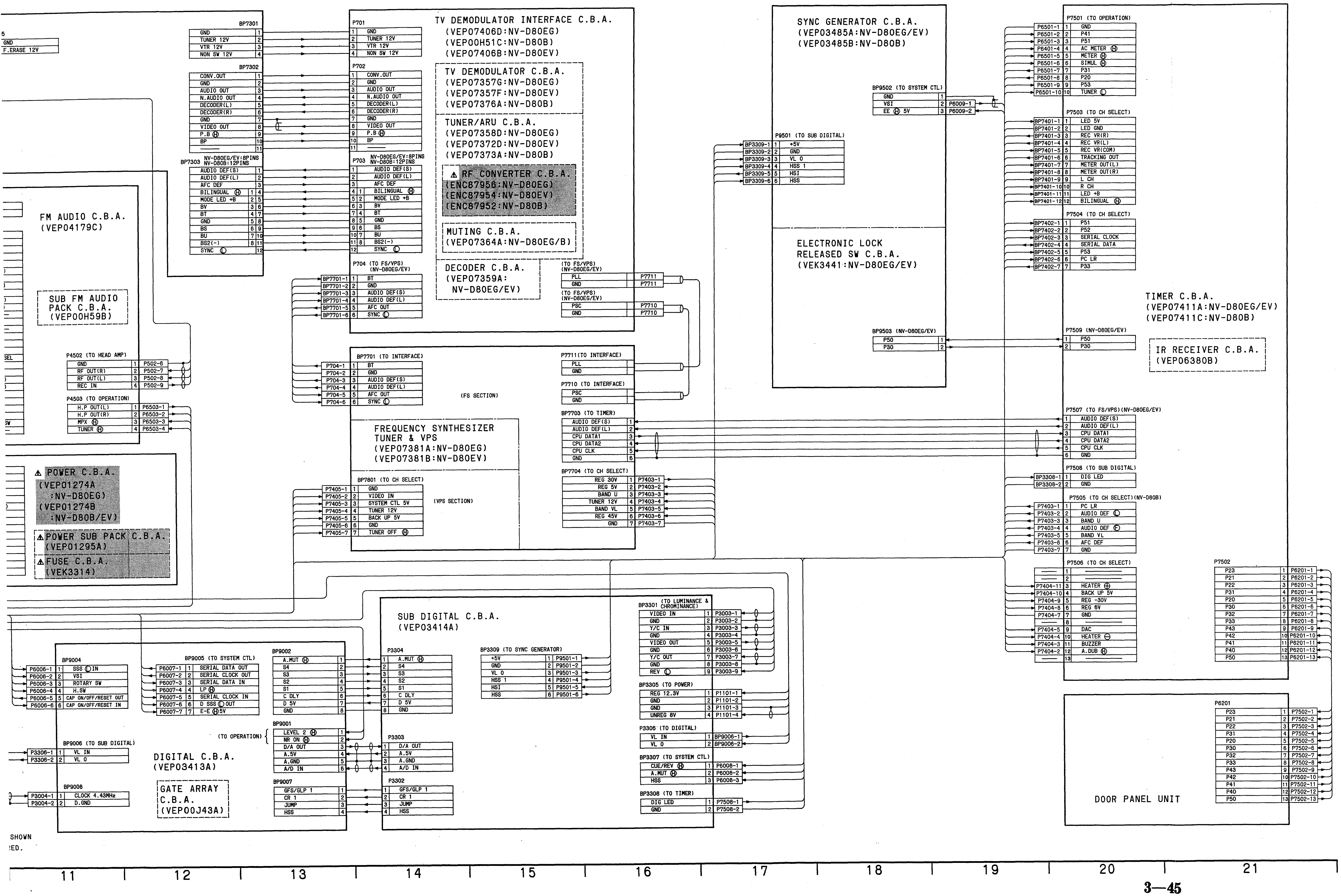
Back Page:
REMOTE CONTROLLER Section

3-66. INTERCONNECTION SCHEMATIC DIAGRAM


⚠ CYLINDER MOTOR
CYLINDER DRIVE C.B.A. (VEP00H22A)
⚠ CAPSTAN MOTOR
PHOTO TR.(T)C.B.A. (VEP00H34A)
PHOTO TR.(S) C.B.A. (VEP00H35A)
MECHANISM CONNECTION C.B.A. (VEP00H30A)
REEL SENSOR C.B.A. (VEP00H31A)
LED C.B.A. (VXA2689)
HEAD AMP C.B.A. (VEP05106C)
A/C HEAD UNIT
FE HEAD C.B.A. (VEP00H60A)
⚠ MAIN C.B.A. (VEP03410A:NV-D80EG) (VEP03410B:NV-D80EV) (VEP03410C:NV-D80B)
SERVO PACK C.B.A. (VEP02280C)
SUB SERVO PACK C.B.A.(VEP02281A)
INDEX SEARCH PACK C.B.A.(VEP02279A)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402D:NV-D80EG) (VEP03402E:NV-D80EV/B)
SECAM PACK C.B.A. (VEP03452A:NV-D80EG)
CH SELECT PACK C.B.A. (VEP07410A:NV-D80EG) (VEP07410B:NV-D80EV) (VEP07417A:NV-D80B)
INPUT/OUTPUT PACK C.B.A. (VEP04173H:NV-D80EG) (VEP04173K:NV-D80EV) (VEP04173J:NV-D80B)
SUB INPUT/OUTPUT C.B.A. (VEP04174E :NV-D80EG/EV) (VEP04174F :NV-D80B)
FM AUDIO C.B.A. (VEP04179C)
SUB FM AUDIO PACK C.B.A. (VEP00H59B)
⚠ POWER C.B.A. (VEP01274A :NV-D80EG) (VEP01274B :NV-D80B/EV)
⚠ POWER SUB PACK C.B.A. (VEP01295A)
⚠ FUSE C.B.A. (VEK3314)
OPERATION C.B.A. (VEP06404A:NV-D80EG) (VEP06404B:NV-D80EV/B)
HEAD PHONE JACK C.B.A. (VEP00J12A:NV-D80EG) (VEP00J12B:NV-D80B/EV)
CASSETTE DOWN SW
DEW SENSOR
TO POSITION SW
SAFETY TAB SW
CHASSIS EARTH
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

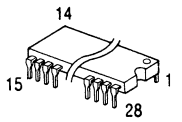
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.


TV DEMODULATOR INTERFACE C.B.A.
(VEP07406D:NV-D80EG)
(VEP00H51C:NV-D80B)
(VEP07406B:NV-D80EV)
TV DEMODULATOR C.B.A.
(VEP07357G:NV-D80EG)
(VEP07357F:NV-D80EV)
(VEP07376A:NV-D80B)
TUNER/ARU C.B.A.
(VEP07358D:NV-D80EG)
(VEP07372D:NV-D80EV)
(VEP07373A:NV-D80B)
⚠ RF CONVERTER C.B.A.
(ENC87956:NV-D80EG)
(ENC87954:NV-D80EV)
(ENC87952:NV-D80B)
MUTING C.B.A.
(VEP07364A:NV-D80EG/B)
DECODER C.B.A.
(VEP07359A:
NV-D80EG/EV)
BP7301
GND
TUNER 12V
VTR 12V
NON SW 12V
BP7302
CONV.OUT
GND
AUDIO OUT
N.AUDIO OUT
DECODER(L)
DECODER(R)
VIDEO OUT
P.B ⊕
BP
BP7303 NV-D80EG/EV:8PINS NV-D80B:12PINS
AUDIO DEF(S)
AUDIO DEF(L)
AFC DEF
BILINGUAL ⊕
MODE LED +B
BV
BT
BS
BU
BS2(−)
SYNC ⊖
P701
P702
P703 NV-D80EG/EV:8PINS NV-D80B:12PINS
P704 (TO FS/VPS) (NV-D80EG/EV)
(TO FS/VPS) (NV-D80EG/EV)
PLL
PSC
P7711
P7710
FM AUDIO C.B.A.
(VEP04179C)
SUB FM AUDIO
PACK C.B.A.
(VEP00H59B)
P4502 (TO HEAD AMP)
RF OUT(R)
RF OUT(L)
REC IN
P502-6
P502-7
P502-8
P502-9
P4503 (TO OPERATION)
H.P OUT(L)
H.P OUT(R)
MPX ⊕
TUNER ⊕
P6503-1
P6503-2
P6503-3
P6503-4
⚠ POWER C.B.A.
(VEP01274A
:NV-D80EG)
(VEP01274B
:NV-D80B/EV)
⚠ POWER SUB PACK C.B.A.
(VEP01295A)
⚠ FUSE C.B.A.
(VEK3314)
GND
F.ERASE 12V
BP7701 (TO INTERFACE)
P7711(TO INTERFACE)
P7710 (TO INTERFACE)
BP7703 (TO TIMER)
CPU DATA1
CPU DATA2
CPU CLK
BP7704 (TO CH SELECT)
REG 30V
REG 5V
BAND U
TUNER 12V
BAND VL
REG 45V
(FS SECTION)
FREQUENCY SYNTHESIZER
TUNER & VPS
(VEP07381A:NV-D80EG)
(VEP07381B:NV-D80EV)
BP7801 (TO CH SELECT)
VIDEO IN
SYSTEM CTL 5V
BACK UP 5V
TUNER OFF ⊕
(VPS SECTION)
SYNC GENERATOR C.B.A.
(VEP03485A:NV-D80EG/EV)
(VEP03485B:NV-D80B)
BP9502 (TO SYSTEM CTL)
VSI
EE ⊕ 5V
P6009-1
P6009-2
P9501 (TO SUB DIGITAL)
+5V
VL 0
HSS 1
HSI
HSS
ELECTRONIC LOCK
RELEASED SW C.B.A.
(VEK3441:NV-D80EG/EV)
BP9503 (NV-D80EG/EV)
P50
P30
TIMER C.B.A.
(VEP07411A:NV-D80EG/EV)
(VEP07411C:NV-D80B)
IR RECEIVER C.B.A.
(VEP06380B)
P7501 (TO OPERATION)
P41
P51
AC METER ⊕
METER ⊕
SIMUL ⊕
P31
P20
P53
TUNER ⊖
P7503 (TO CH SELECT)
LED 5V
LED GND
REC VR(R)
REC VR(L)
REC VR(COM)
TRACKING OUT
METER OUT(L)
METER OUT(R)
L CH
R CH
LED +B
BILINGUAL ⊕
P7504 (TO CH SELECT)
P52
SERIAL CLOCK
SERIAL DATA
PC LR
P33
P7509 (NV-D80EG/EV)
P7507 (TO FS/VPS)(NV-D80EG/EV)
P7508 (TO SUB DIGITAL)
DIG LED
P7505 (TO CH SELECT)(NV-D80B)
AUDIO DEF ⊖
BAND U
AUDIO DEF ⊕
BAND VL
AFC DEF
P7506 (TO CH SELECT)
HEATER ⊕
BACK UP 5V
REG −30V
REG 6V
DAC
HEATER ⊖
BUZZER
A.DUB ⊕
P7502
P23
P21
P22
P32
P43
P42
P40
P6201-1 … P6201-13
P6201
P7502-1 … P7502-13
DOOR PANEL UNIT
SUB DIGITAL C.B.A.
(VEP03414A)
P3304
A.MUT ⊕
S4
S3
S2
S1
C DLY
D 5V
P3303
D/A OUT
A.5V
A.GND
A/D IN
P3302
GFS/GLP 1
CR 1
JUMP
BP3309 (TO SYNC GENERATOR)
P9501-1 … P9501-6
BP3301 (TO LUMINANCE & CHROMINANCE)
Y/C IN
VIDEO OUT
Y/C OUT
REV ⊖
P3003-1 … P3003-9
BP3305 (TO POWER)
REG 12.3V
UNREG 8V
P1101-1 … P1101-4
P3306 (TO DIGITAL)
VL IN
BP9006-1
BP9006-2
BP3307 (TO SYSTEM CTL)
CUE/REV ⊕
A.MUT ⊕
P6008-1
P6008-2
P6008-3
BP3308 (TO TIMER)
P7508-1
P7508-2
DIGITAL C.B.A.
(VEP03413A)
GATE ARRAY
C.B.A.
(VEP00J43A)
BP9004
SSS ⊖ IN
ROTARY SW
H.SW
CAP ON/OFF/RESET OUT
CAP ON/OFF/RESET IN
P6006-1 … P6006-6
BP9005 (TO SYSTEM CTL)
SERIAL DATA OUT
SERIAL CLOCK OUT
SERIAL DATA IN
LP ⊕
SERIAL CLOCK IN
D SSS ⊖ OUT
E-E ⊕ 5V
P6007-1 … P6007-7
BP9002
BP9001
(TO OPERATION)
LEVEL 2 ⊕
NR ON ⊕
BP9007
BP9006 (TO SUB DIGITAL)
P3306-1
P3306-2
BP9008
CLOCK 4.43MHz
D.GND
P3004-1
P3004-2
11
12
13
14
15
16
17
18
19
20
21

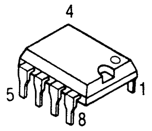
SHOWN
ED.

3-67. ICs & TRs INFORMATION

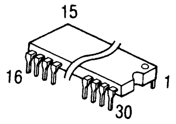
GENERAL CIRCUIT PARTS



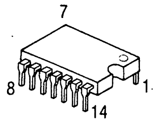
MN15311VBS
MN15521VJP



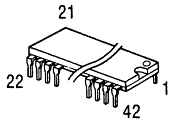
μPC393C
μPC4558C
AN6558
AN6562
AN6914



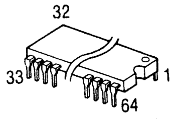
M51366SP
AN3494NK



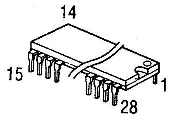
MN4066B
MN4013B
μPD4001BC
μPD74HC04C



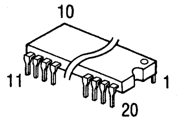
BA7721S
MN158412VYA



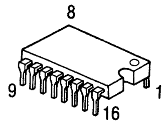
MN15362VJR
MN15283VJU



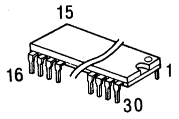
SAA5235
TDA3803A
μPD6160CA606



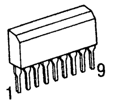
AN3224K
AN3920K
AN5034
AN3494K



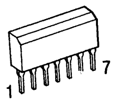
MN1220
μPD4052BC
μPD74HC123AC
μPD74HC221AC
MN4510B



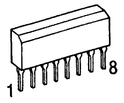
BA7711S
BU3735S



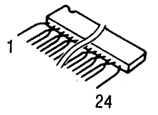
TA7348P
μPC1531HA



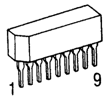
TA7302P
TA7374P



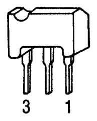
M5201L
μPC1490HA



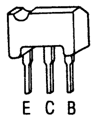
BA7056LS
BA7752LS



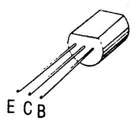
AN5421
AN6913



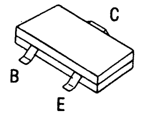
MN1280
MN1280P



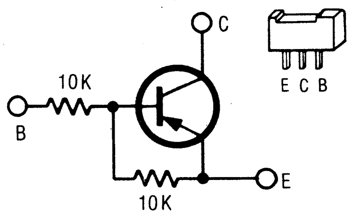
2SB641 2SC2377
2SB642 2SD636
2SB643 2SD637
2SB644 2SD638
2SB788 2SD639
2SB790 2SD1330
2SC2206 2SD958



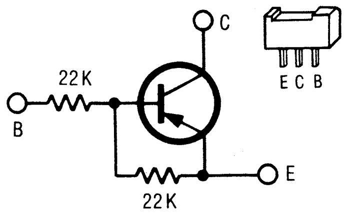
2SD893
2SC1384S
2SD655



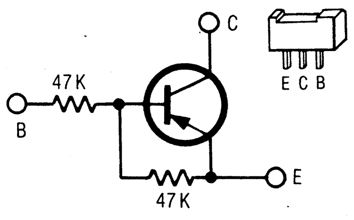
2SB709
2SC2295
2SC2404
2SD601
2SD1306
2SD1328


C
E C B
10K
B
E
10K

DTA114EA

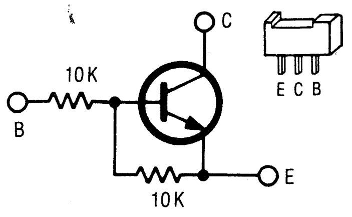

C
E C B
22K
B
E
22K

DTA124EA

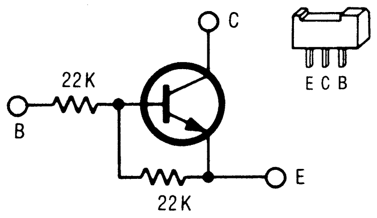

C
E C B
47K
B
E
47K

DTA144EA

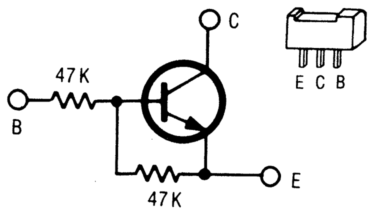
Back Page:
INTERCONNECTION Section


C
E C B
10K
B
E
10K

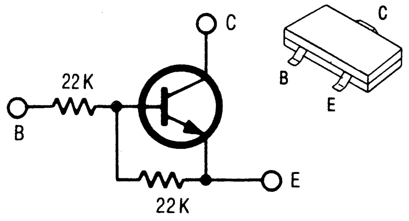
DTC114EA


C
E C B
22K
B
E
22K

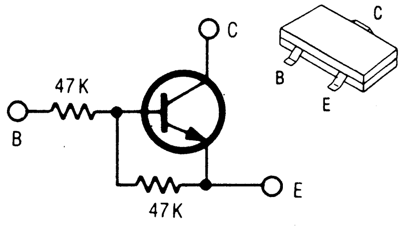
DTC124EA


C
E C B
47K
B
E
47K

DTC144EA

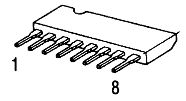

C
C
B E
22K
B
E
22K

UN2212


C
C
B E
47K
B
E
47K

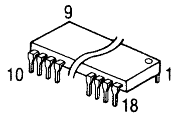
UN2213

INDEX SEARCH

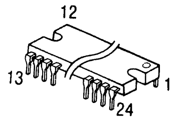


BA6305

SERVO

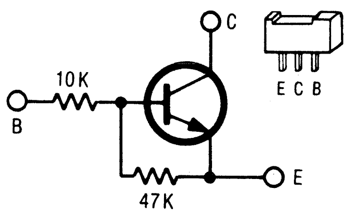


AN3812K

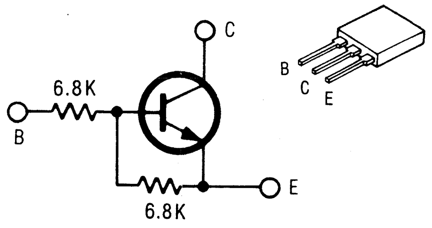


BA6430S

LUMINANCE & CHROMINANCE Section

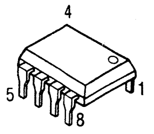

C
E C B
10K
B
E
47K

DTC114YA

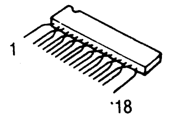

C
B
C E
6.8K
B
E
6.8K

2SD1676

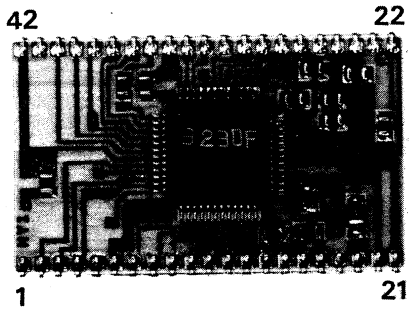
LUMINANCE & CHROMINANCE PACK



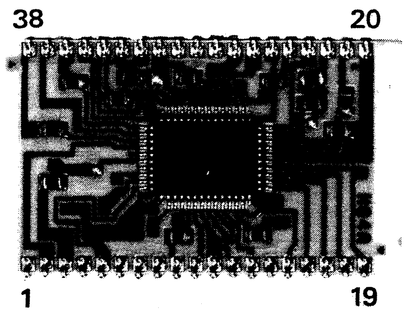
MSM6965-3RS



BA7025L

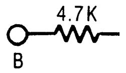


VEFH03A

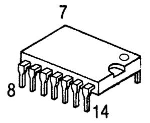


VEFH04A

AUD

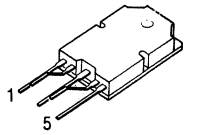


FREQUENCY SYNTHESIZE TUNER & VP



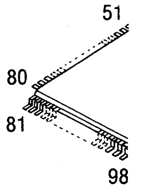
SAF1135P

POWER



STR16006

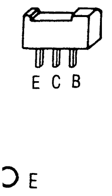
DIGITAL

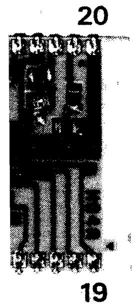


μPD6

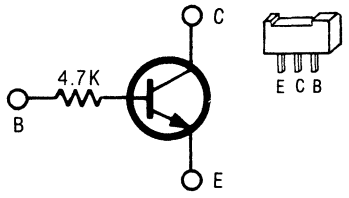
SUB DIGITA

B



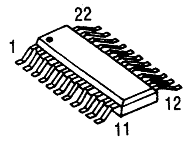


AUDIO Section

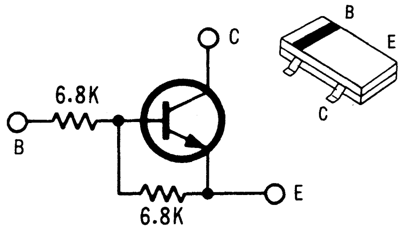


DTC143TA

HEAD AMP

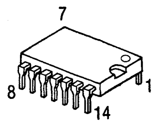


AN3311S


C
6.8K
B
6.8K
E
B
E
C

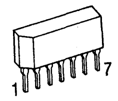
2SD1777CI

FREQUENCY SYNTHESIZER TUNER & VPS

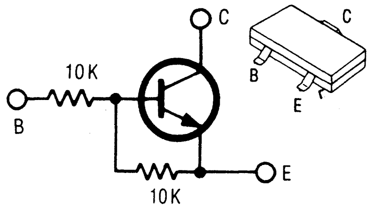


SAF1135P

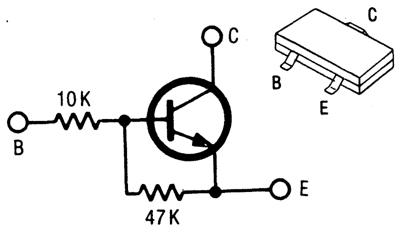
TV DEMODULATOR



AN5215

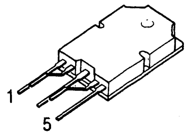

C
10K
B
10K
E
C
B
E

UN2211

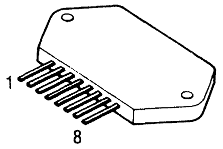

C
10K
B
47K
E
C
B
E

UN2214

POWER

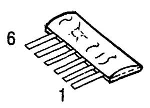


STR16006



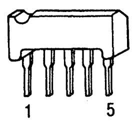
STK5339

OPERATION

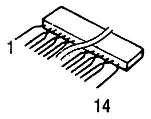


VCR0172

INPUT/OUTPUT PACK

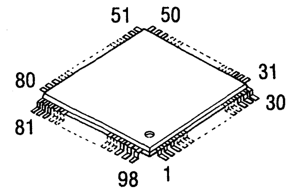


BA7004

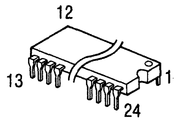


M51132L

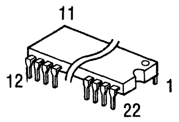
DIGITAL


51
50
80
31
30
81
98
1

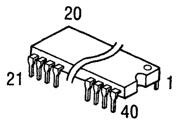
µPD65031F175



µPD6950C

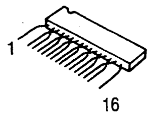


µPD6900C

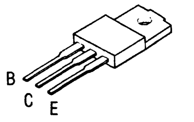


MN4700

SUB DIGITAL

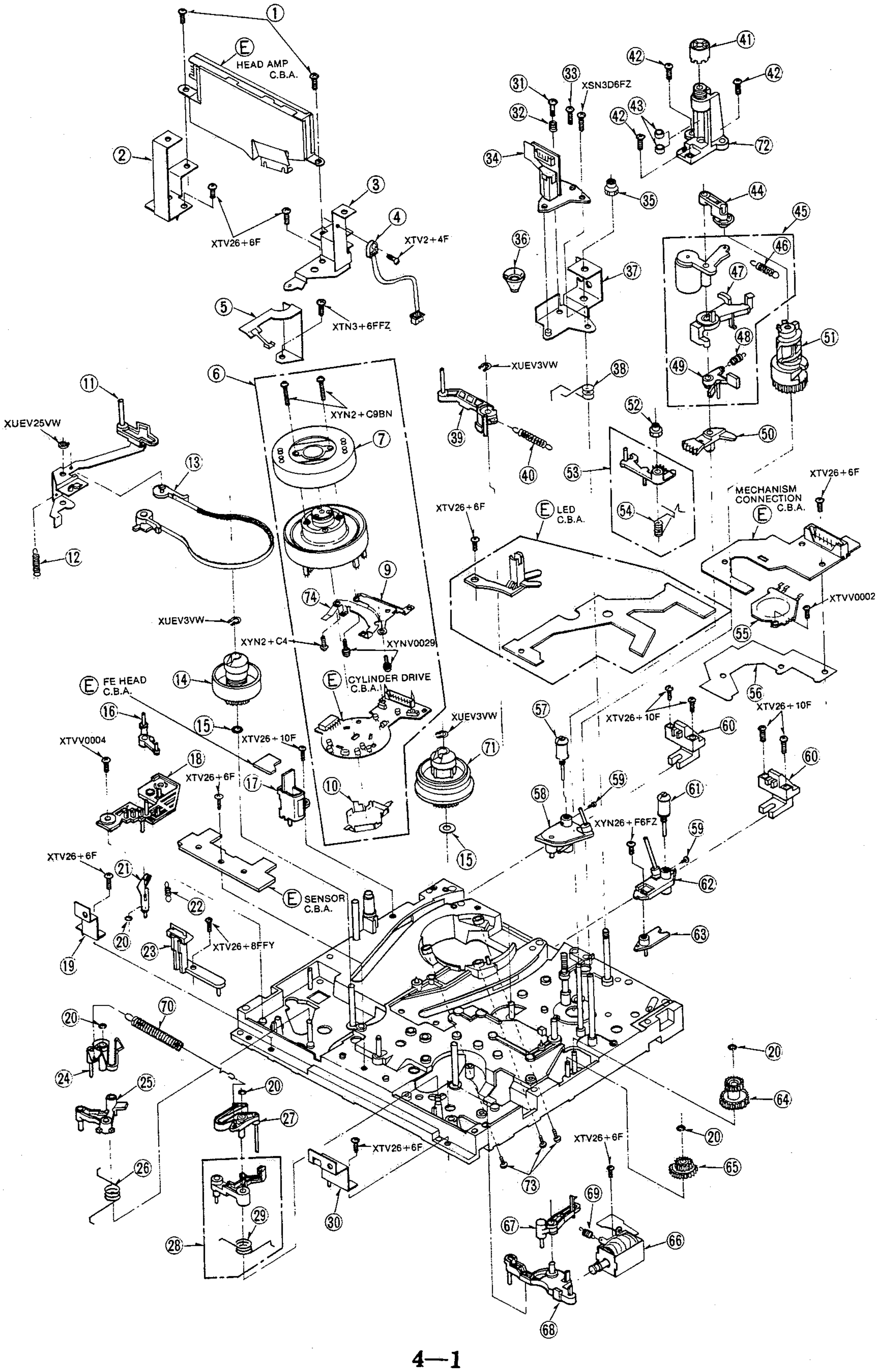


BA7023L

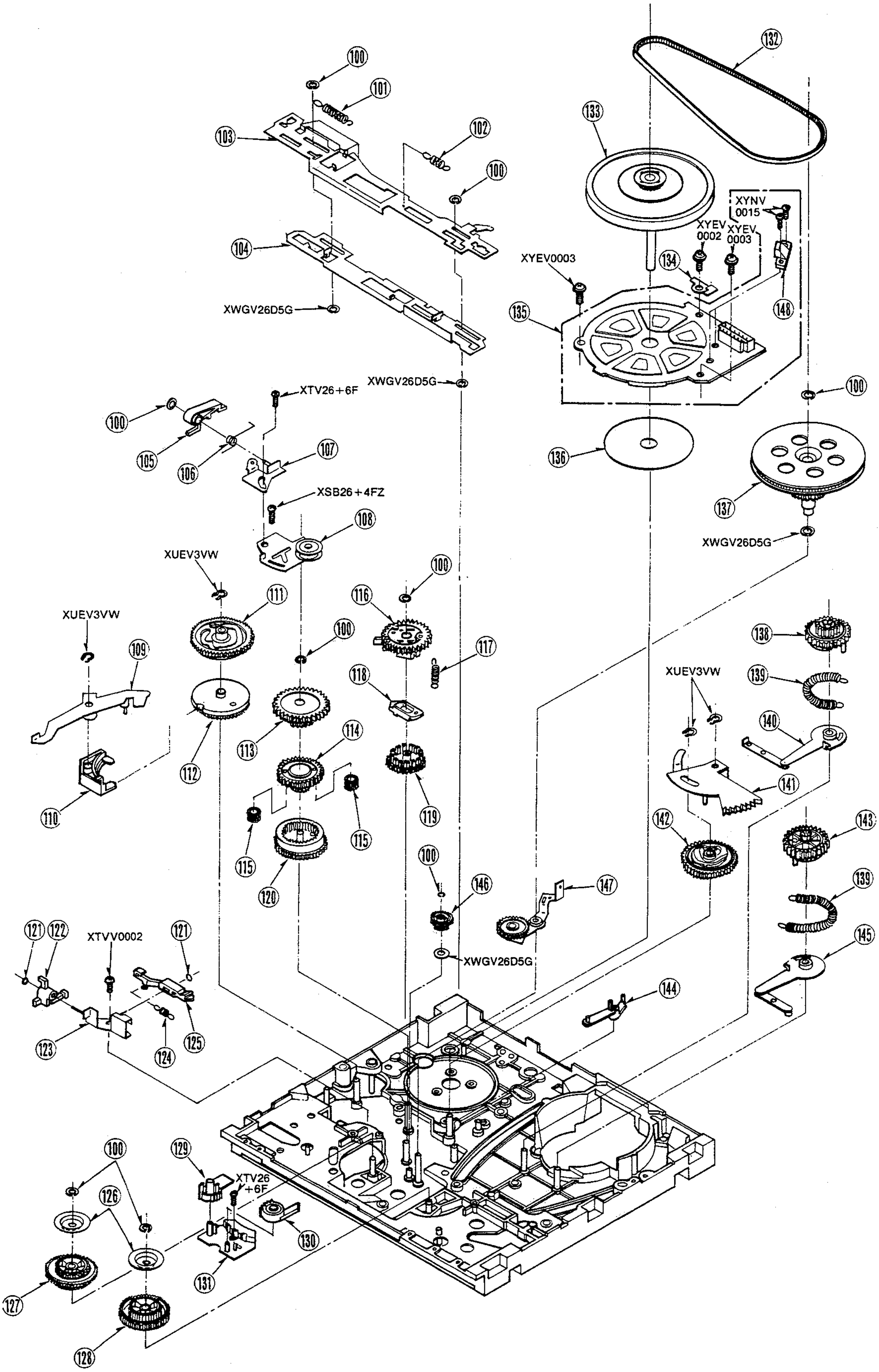


2SD1273

SECTION 4
EXPLODED VIEWS & PARTS LIST
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)

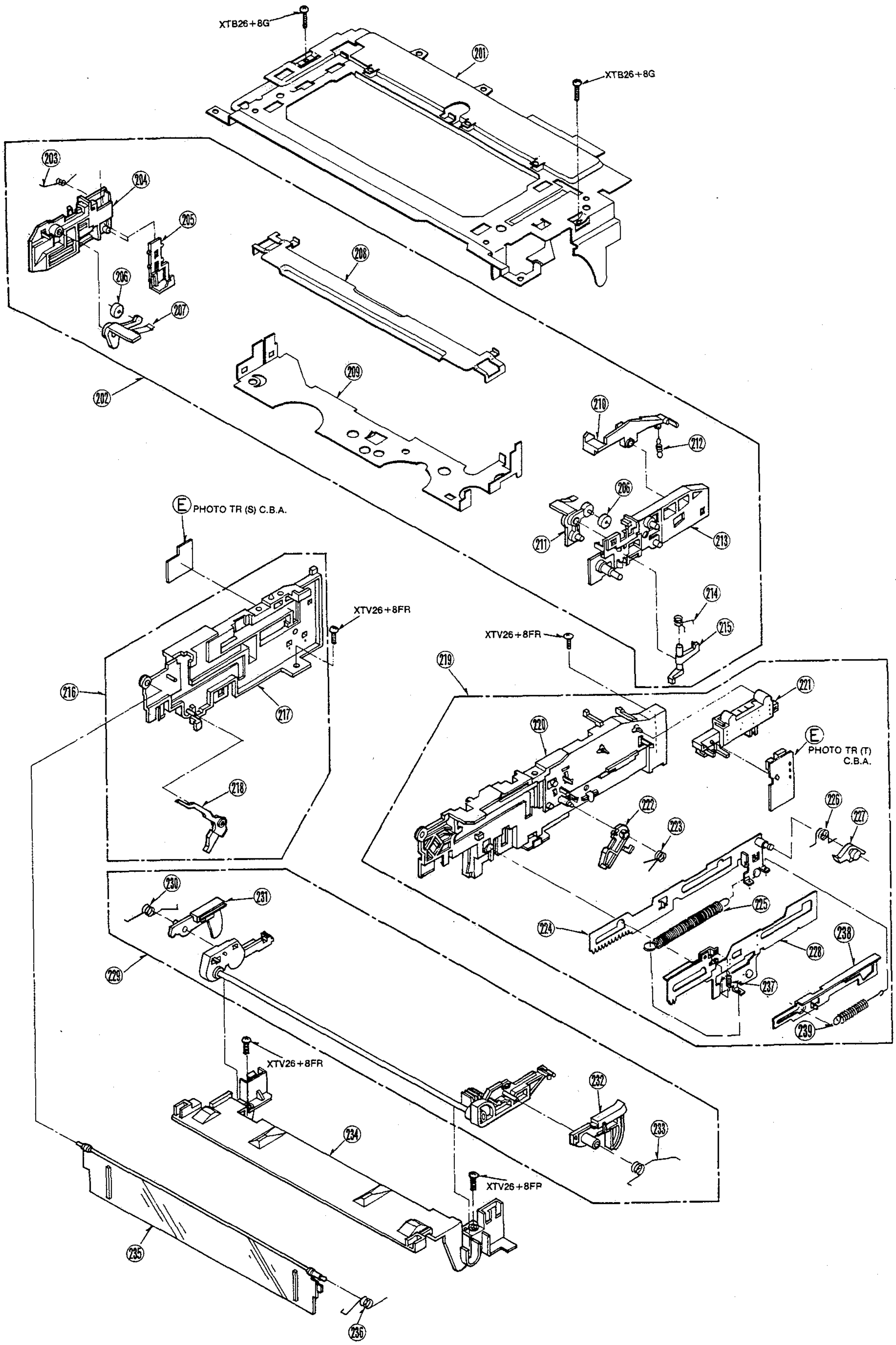

①
Ⓔ HEAD AMP C.B.A.
②
③
④
XTV2+4F
XTV26+6F
⑤
XTN3+6FFZ
⑥
XYN2+C9BN
⑦
⑨
⑩
⑪
XUEV25VW
⑫
⑬
⑭
XUEV3VW
XYN2+C4
XYNV0029
Ⓔ CYLINDER DRIVE C.B.A.
Ⓔ FE HEAD C.B.A.
⑮
⑯
XTVV0004
⑰
XTV26+10F
⑱
XTV26+6F
Ⓔ SENSOR C.B.A.
⑲
⑳
㉑
㉒
㉓
XTV26+8FFY
㉔
㉕
㉖
㉗
㉘
㉙
㉚
XTV26+6F
㉛
㉜
㉝
XSN3D6FZ
㉞
㉟
㊱
㊲
㊳
XUEV3VW
㊴
㊵
㊶
㊷
㊸
㊹
㊺
㊻
㊼
㊽
㊾
㊿
(51)
(52)
(53)
(54)
(55)
(56)
Ⓔ LED C.B.A.
XTV26+6F
Ⓔ MECHANISM CONNECTION C.B.A.
XTV26+6F
XTVV0002
(57)
XTV26+10F
(58)
(59)
(60)
XTV26+10F
(61)
XYN26+F6FZ
(62)
(63)
(64)
(65)
(66)
(67)
(68)
(69)
(70)
(71)
XUEV3VW
(72)
(73)
(74)
XTV26+6F

❷ CHASSIS PARTS SECTION (2)

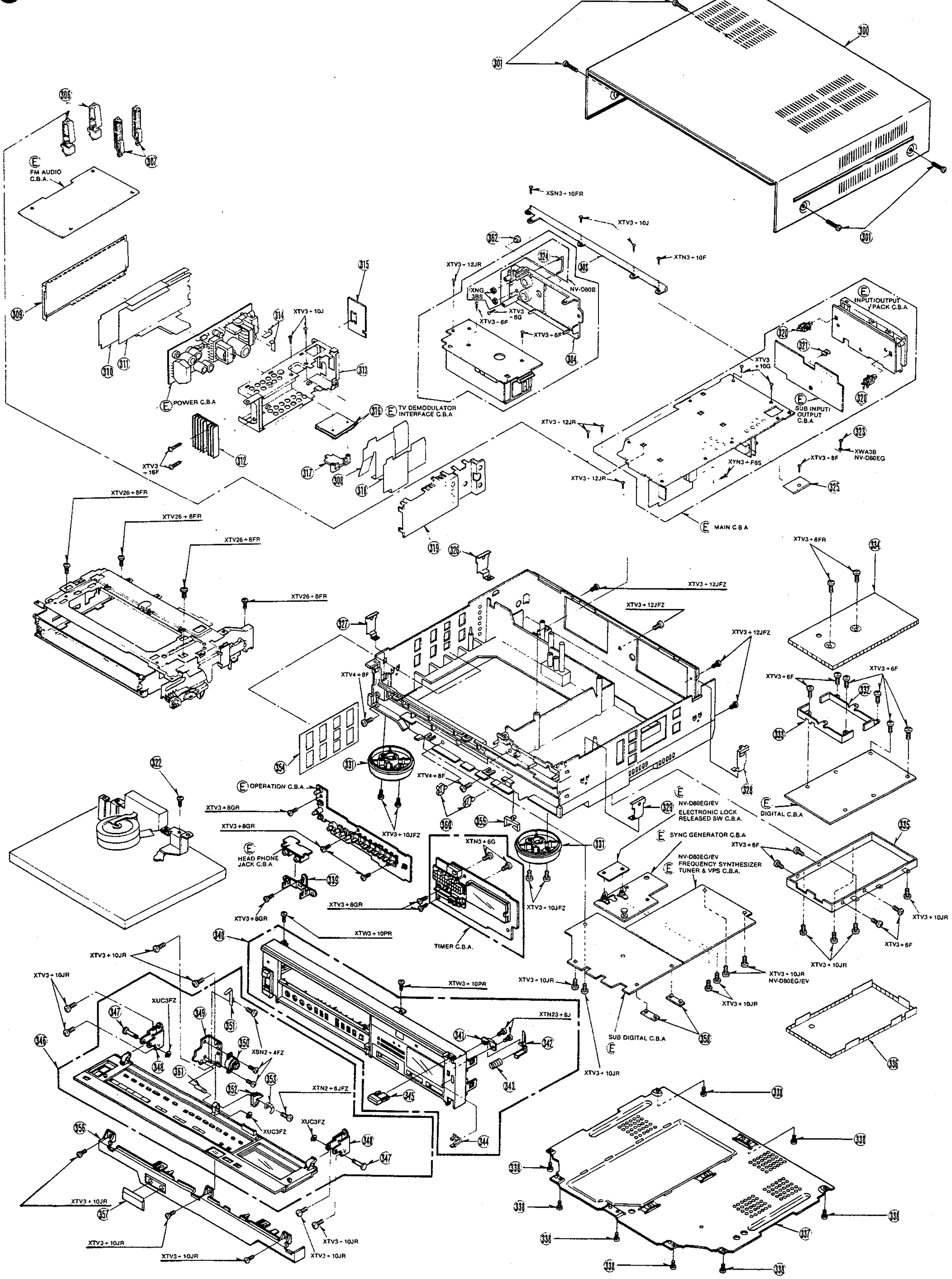


132
100
101
133
103
102
100
XYNV
0015
XYEV
0002
XYEV
0003
104
XYEV0003
134
135
148
XWGV26D5G
XWGV26D5G
XTV26+6F
100
100
107
105
106
136
XSB26+4FZ
137
XWGV26D5G
108
XUEV3VW
100
111
116
XUEV3VW
109
100
117
138
118
XUEV3VW
139
140
112
113
114
141
110
119
115
115
142
143
120
100
139
146
147
121
122
XTVV0002
121
XWGV26D5G
145
144
123
124
125
100
129
XTV26
+6F
126
130
131
127
128

❸ CASSETTE UP MECHANISM SECTION

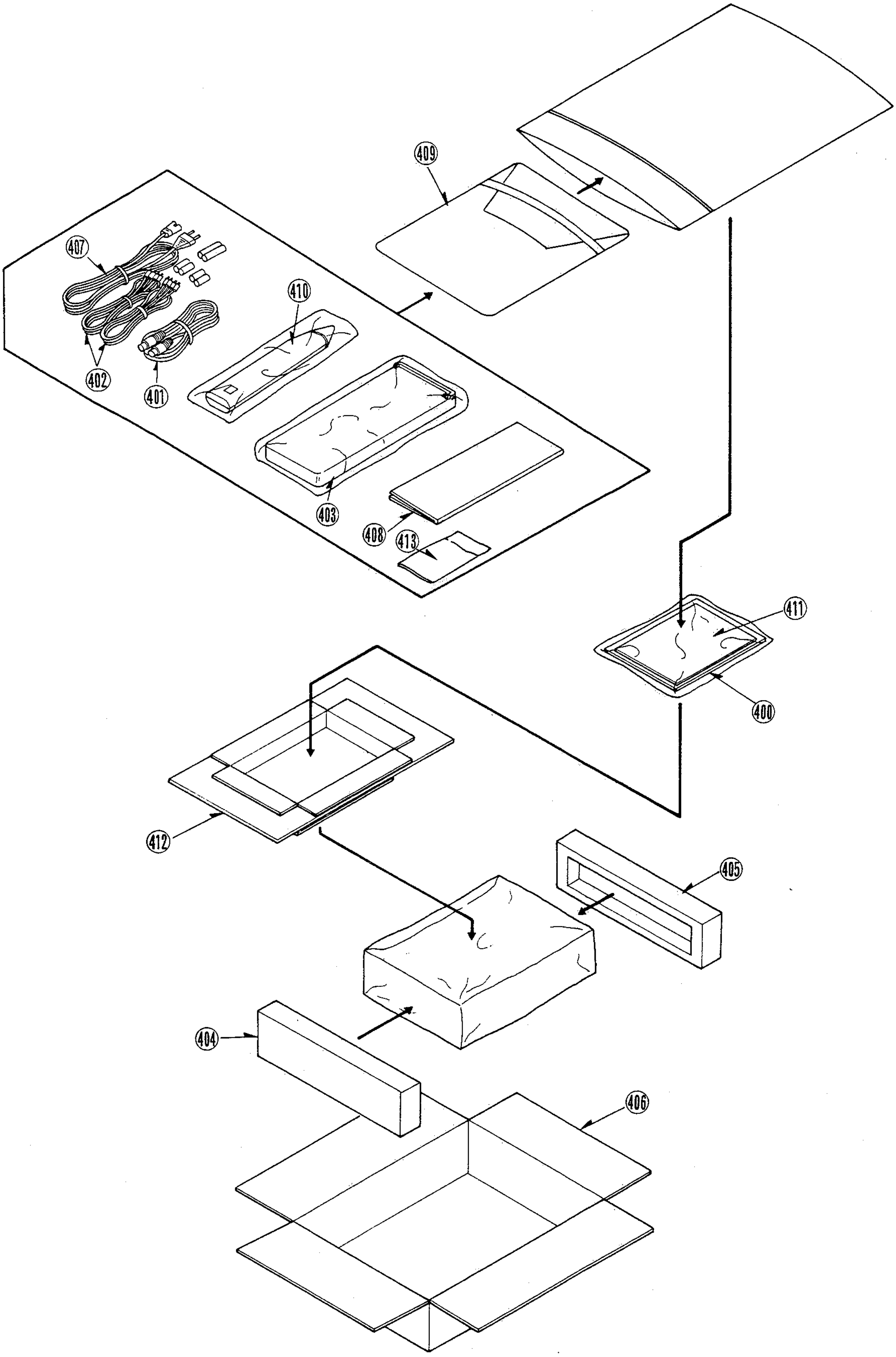

XTB26+8G
201
XTB26+8G
203
204
205
206
207
208
209
202
210
212
206
211
213
214
215
PHOTO TR (S) C.B.A.
XTV26+8FR
XTV26+8FR
216
217
218
219
220
221
PHOTO TR (T) C.B.A.
222
223
226
227
224
225
228
238
237
239
230
231
229
XTV26+8FR
232
233
234
XTV26+8FR
235
236

❹ CASING PARTS SECTION

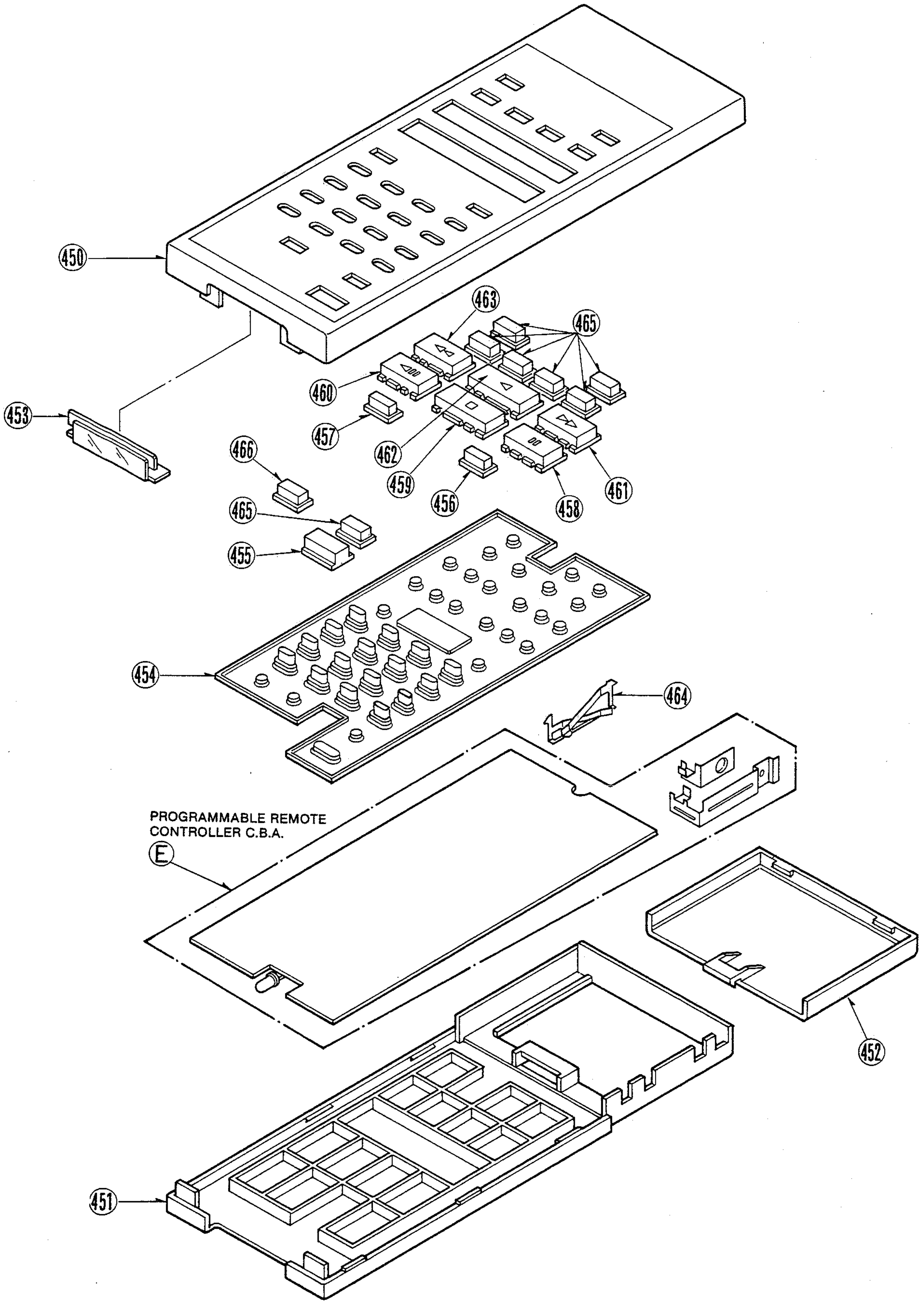


301
300
301
306
307
E FM AUDIO C.B.A.
309
310
311
E POWER C.B.A
314
XTV3 + 10J
313
315
312
XTV3 + 16F
316 E TV DEMODULATOR INTERFACE C.B.A
317
308
318
319
326
XSN3 + 10FR
XTV3 + 10J
362
324
303
XTN3 + 10F
XTV3 + 12JR
XNG 3BS
XTV3 + 8G
XTV3 - 6F
NV-D80B
XTV3 + 6F
304
E INPUT/OUTPUT PACK C.B.A
320
321
XTV3 + 10G
320
E SUB INPUT/ OUTPUT C.B.A
XTV3 - 12JR
XTV3 - 12JR
XYN3 + F8S
323
XWA3B NV-D80EG
XTV3 + 8F
325
E MAIN C.B.A
XTV26 + 8FR
XTV26 + 8FR
XTV26 + 8FR
XTV26 + 8FR
XTV3 + 12JFZ
XTV3 + 12JFZ
XTV3 + 12JFZ
327
XTV4 + 8F
354
331
XTV4 + 8F
360
355
XTV3 + 10JFZ
322
E OPERATION C.B.A.
XTV3 + 8GR
XTV3 + 8GR
E HEAD PHONE JACK C.B.A
339
XTV3 + 8GR
XTN3 + 6G
XTV3 + 8GR
331
XTV3 + 10JFZ
TIMER C.B.A.
XTW3 + 10PR
340
XTV3 + 6FR
334
XTV3 + 6F
XTV3 + 6F
332
333
328
E DIGITAL C.B.A
329
E NV-D80EG/EV ELECTRONIC LOCK RELEASED SW C.B.A.
E SYNC GENERATOR C.B.A
E NV-D80EG/EV FREQUENCY SYNTHESIZER TUNER & VPS C.B.A.
335
XTV3 + 6F
XTV3 + 10JR
XTV3 + 6F
XTV3 + 10JR
XTV3 + 10JR
XTV3 + 10JR NV-D80EG/EV
XTV3 + 10JR
SUB DIGITAL C.B.A
E
358
XTV3 + 10JR
336
XTV3 + 10JR
XTV3 + 10JR
XUC3FZ
347
348
346
349
351
350
XSN2 + 4FZ
361
352
353
XTN2 + 6JFZ
XUC3FZ
XTW3 + 10PR
XTN23 + 8J
341
342
343
345
344
XUC3FZ
348
347
356
XTV3 + 10JR
357
XTV3 + 10JR
XTV3 - 10JR
XTV3 - 10JR
XTV3 + 10JR
338
338
338
338
338
338
338
338
337

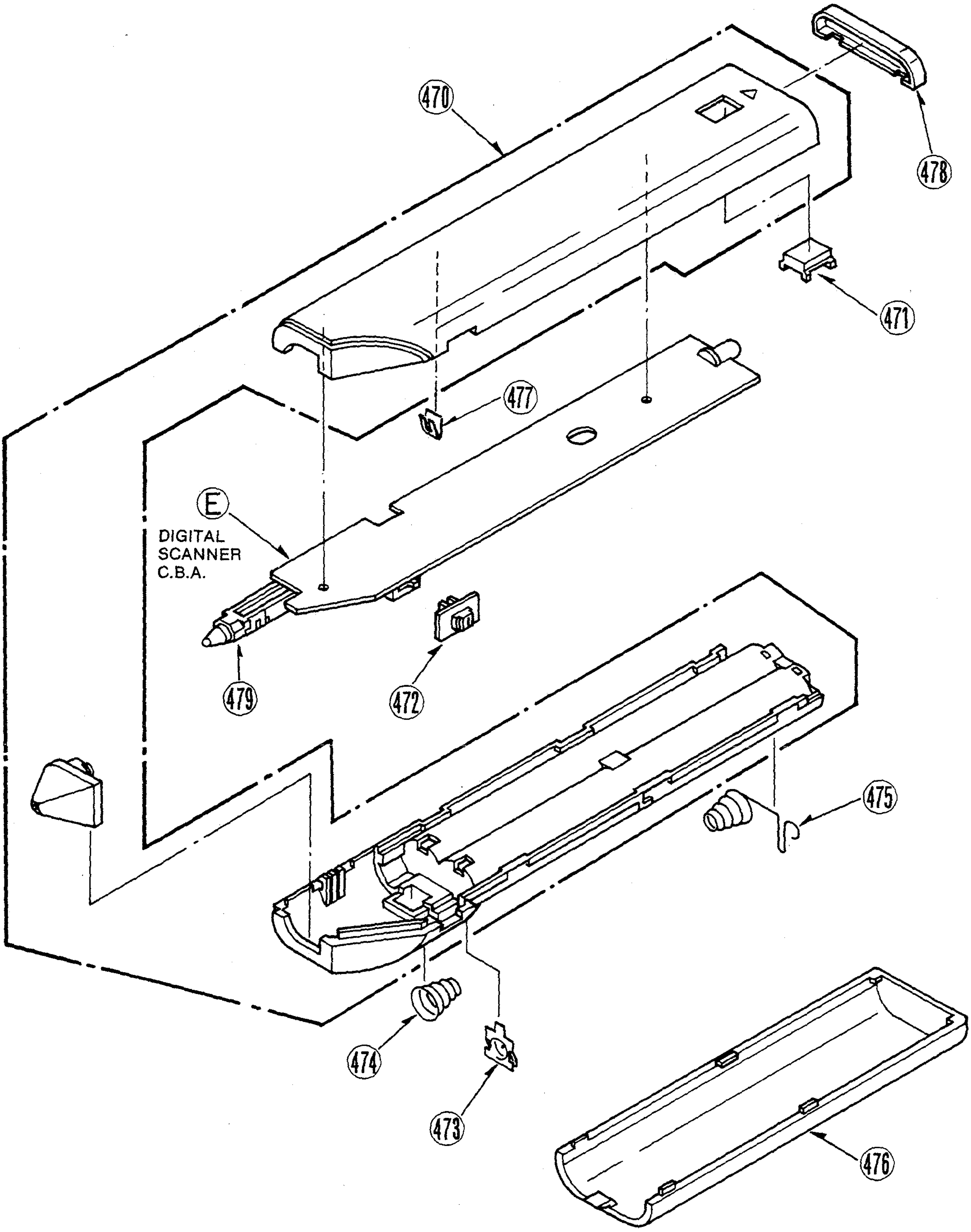
❺ PACKING PARTS SECTION


409
407
410
402
401
403
408
413
411
400
412
405
404
406

❻ PROGRAMMABLE REMOTE CONTROLLER UNIT


(450)
(463)
(465)
(460)
(453)
(457)
(462)
(459)
(456)
(458)
(461)
(466)
(465)
(455)
(454)
(464)
PROGRAMMABLE REMOTE CONTROLLER C.B.A.
Ⓔ
(452)
(451)

❼ DIGITAL SCANNER


470
478
471
477
E
DIGITAL SCANNER C.B.A.
479
472
475
474
473
476

Memo

ORDER NO. VRD8705137A
(Date of issue : MAY, 1987)

PARTS LIST

MODEL NO : NV-D80EG/EV/B

1.NV-D80EG/EV/B Mechanical Replacement Parts List

※This parts list is detachable from the manual.

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VHD0268	HEAD AMP SET SCREW	2	
2(1)		VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)		VMA6898	HEAD AMP MOUNT ANGLE (R)	1	
4(1)		VEK3185	DEW SENSOR UNIT	1	
5(1)		VXA2702	EARTH PLATE UNIT	1	
6(1)		VEG0518	CYLINDER UNIT	1	<!>
7(1)		VEH0339	UPPER CYLINDER UNIT	1	
9(1)		VXA2703	MAIN HOLDER UNIT	1	
10(1)		VSC1806	CYLINDER C.B.A SHIELD PLATE	1	
11(1)		VXL1495	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0225	TENSION BAND UNIT	1	
14(1)		VXR0145	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER	2	
16(1)		VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)		VBS0038	FE HEAD	1	
18(1)		VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	5	
21(1)		VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)		VMB1582	TENSION RELEASE SPRING	1	
23(1)		VES0350	SAFETY SW	1	
24(1)		VXZ0229	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0228	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0231	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)		VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VBR0117	A/C HEAD	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0050	ADJUST NUT	1	
37(1)		VXA2675	HEAD BASE UNIT	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1480	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	3	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1078	PINCH CAM CAP	1	
45(1)		VXL1481	PRESSURE ROLLER UNIT	1	
46(1)		VMB1568	PIN PRESSURE SPRING	1	
47(1)		VML1873	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE	1	
			SPRING		
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0357	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0356	PINCH CAM	1	
52(1)		VHN0023	M3 NYLON NUT	1	
53(1)		VXL1485	P5 UNIT	1	
54(1)		VMB1554	P5 SPRING	1	
55(1)		VSS0175A	MODE SW	1	
56(1)		VSC1851	SHIELD PLATE	1	
57(1)		VXP0764B	ROLLER POST UNIT	1	
58(1)		VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
61(1)		VXP0764A	ROLLER POST UNIT	1	
62(1)		VXA2686	INCLIND BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)		VDG0334	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0332	CONNECTION GEAR	1	
66(1)		VXA2693	SOLENOID	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VXA2691	SOLENOID LEVER (1) UNIT	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB1565	MAIN BRAKE SPRING	1	
71(1)		VXR0146	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
73(1)		VHD0342	CYLINDER MOUNT SCREW	3	
74(1)		VSC1843	HEAT SINK PLATE	1	
100(2)		VMX1079	CUT WASHER	8	
101(2)		VMB1583	TAKE UP SOFT BRAKE RELEASE	1	
			ARM SPRING		
102(2)		VMB1560	MAIN LEVER SPRING	1	
103(2)		VXA2701	MAIN LEVER (1) UNIT	1	
104(2)		VMM0160	SUB LEVER	1	
105(2)		VXL1500	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA2707	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA2674	TENSION ROLLER UNIT	1	
109(2)		VXL1491	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0346	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0344	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	2	
116(2)		VDG0349	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
126(2)		VMX1124	REEL GEAR RING	2	
127(2)		VXP0779	TAKE UP REEL GEAR UNIT	1	
128(2)		VDG0337	SUPPLY REEL GEAR	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0159	TIMING BELT	1	
133(2)		VXP0777	ROTOR UNIT	1	
134(2)		VMA6998	ROTOR STOPPER	1	
135(2)		VEK2944	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP0767	CENTRE PULLEY UNIT	1	
138(2)		VDG0340	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING	2	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA2673	SECTOR GEAR UNIT	1	
142(2)		VDG0347	LOADING CAM GEAR	1	
143(2)		VDG0339	LOADING GEAR (S)	1	
144(2)		VML1855	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0336	INTERMEDIATE GEAR	1	
147(2)		VXL1490	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	
201(3)		VMA6903	TOP PLATE	1	
202(3)		VXA2679	CASSETTE HOLDER UNIT	1	
203(3)		VMB1573	MOUNT LEVER SPRING	1	
204(3)		VMD0919	HOLDER GUIDE (L)	1	
205(3)		VMM0163	MOUNT LEVER	1	
206(3)		VDP1077	ROLLER	2	
207(3)		VML1883	PRESSURE LEVER (L)	1	
208(3)		VMA6902	HOLDER ANGLE	1	
209(3)		VMA6901	CASSETTE HOLDER	1	
210(3)		VML1882	OPENER LEVER	1	
211(3)		VML1884	PRESSURE LEVER (R)	1	
212(3)		VMB1584	OPENER LEVER SPRING	1	
213(3)		VMD0920	HOLDER GUIDE (R)	1	
214(3)		VMB1576	RELEASE SPRING	1	
215(3)		VML1881	RELEASE LEVER	1	
216(3)		VXA2676	SIDE PLATE (L) UNIT	1	
217(3)		VMD0917	SIDE PLATE (L)	1	
218(3)		VML1880	OPENER LEVER	1	
219(3)		VXA2677	SIDE PLATE (R) UNIT	1	
220(3)		VMD0918	SIDE PLATE (R)	1	
221(3)		VSS0176	SLIDE SW	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
222(3)		VML1886	DOWN SUPPORT LEVER	1	
223(3)		VMB1575	DOWN SUPPORT SPRING	1	
224(3)		VXA2695	RACK (A)(1) UNIT	1	
225(3)		VMB1572	CLUTCH SPRING	1	
226(3)		VMB1574	LOCK SPRING	1	
227(3)		VML1885	LOCK LEVER	1	
228(3)		VXA2829	RACK (B) UNIT	1	
229(3)		VXP0771	MAIN SHAFT UNIT	1	
230(3)		VMB1570	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1571	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF0848	BLINDER PANEL	1	
236(3)		VMB1258	BLINDER SPRING	1	
237(3)		VMB1650	RACK (C) SPRING	1	
238(3)		VMA7062	CONNECTION ROD	1	
239(3)		VMB1686	CONNECTION ROD SPRING	1	
300(4)		VYP1854	TOP PANEL UNIT	1	
301(4)		VHD0304	SCREW	4	
303(4)		VMP1059	SUPPORT ANGLE	1	
304(4)		VJH0417	RF&ANT BOARD	1	NV-D80EG
304(4)		VJH0418	RF&ANT-BOARD	1	NV-D80B/EV
306(4)		VKC0294	HINGE CLIP	2	
307(4)		VJF0403	SUDDLE HINGE	2	
308(4)		VMZ0917	BARRIER (C)	1	<!>
309(4)		VSC1827	SHIELD CASE (L)	1	
310(4)		VMZ0902	BARRIER (A)	1	<!>
311(4)		VMZ0916	BARRIER (B)	1	<!>
312(4)		VSC1933	HEAT SINK	1	
313(4)		VSC1924	SHIELD CASE MAIN	1	
314(4)		VMZ0948	BARRIER (E)	2	<!>
315(4)		VGH1127	POWER NAME PLATE	1	
316(4)		VMZ0876	INSULATION SHEET	2	<!>
317(4)		VGQ1109	TR. HOLDER	1	
318(4)		VMZ0918	BARRER (D)	1	<!>
319(4)		VSC1829	SHIELD CASE (R)	1	
320(4)		VJF0236	C.B. SUPPORTER	2	
321(4)		VMX0985	C.B. SPACER	1	
322(4)		VHD0168	CHASSIS MOUNT SCREW	1	
323(4)		VHD0268	SCREW	1	
324(4)		VKH0105	HOOK	1	NV-D80B
325(4)		VMZ1063	SW BARRIER	1	
326(4)		VMP1110	TOP HOLDER ANGLE (RL)	1	
327(4)		VMP1108	TOP HOLDER ANGLE (FL)	1	
328(4)		VMP1166	TOP HOLDER ANGLE (RR)	1	
329(4)		VMP1109	TOP HOLDER ANGLE (FR)	1	
331(4)		VYQ0019	LEG UNIT	2	
332(4)		VSC1967	DIGITAL SHIELD ANGLE (B)	1	
333(4)		VSC1966	DIGITAL SHIELD ANGLE (A)	1	
334(4)		VSC1894	DIGITAL SHIELD CASE (TOP)	1	
335(4)		VSC1895	DIGITAL CHIELD CASE MAIN	1	
336(4)		VSC1896	DIGITAL SHIELD CASE	1	
337(4)		VKU0247	BOTTOM PLATE	1	
338(4)		VHD0059	SCREW	8	
339(4)		VJF0427	JACK SUPPORT	1	
340(4)		VYP1957	FRONT PANEL UNIT	1	NV-D80EG/EV
340(4)		VYP1958	FRONT PANEL UNIT	1	NV-D80B
341(4)		VJF0426	BUTTON LEVER HOLDER	1	
342(4)		VML1969	DOOR OPON LEVER	1	
343(4)		VMB1398	OPON SPRING	1	
344(4)		VGQ0550	DOOR LOCK PIECF	1	
345(4)		VGU3854	DOOR OPON BUTTUN	1	
346(4)		VYF1091	DOOR PANEL UNIT	1	NV-D80EG/EV
346(4)		VYF1092	DOOR PANEL UNIT	1	NV-D80B
347(4)		VMS3406	SHAFT (A)	2	
348(4)		VMP1141	DOOR PANEL ANGLE (A)	2	
349(4)		VMP1143	DOOR PANEL ANGLE (B)	1	
350(4)		VDG0391	DAMPER	1	
351(4)		VMC0301	DOOR PANEL SPRING	1	
352(4)		VDG0390	DOOR PANEL GEAR	1	
353(4)		VMC0283	EARTH SPRING (C)	1	
354(4)		VXA2885	BCI SHIELD PLATE UNIT	1	
355(4)		VJF0122	WIRE SUDDLE	1	
356(4)		VYP1819	FRONT LOWER PANEL UNIT	1	
357(4)		VGK1622	JACK COVER	1	
358(4)		VKC0271	HINGE CLIP	2	
360(4)		VJF0442	WIRE SADDLE	2	
361(4)		VMS3405	SHAFT (B)	1	
362(4)		VMG0272	RF CONVERTER BUSHING	1	
400(5)		VQT2298	OPERATING INSTRUCTIONS	1	NV-D80EG/EV(ENGLISH.
					GERMAN,FRENCH) <!>
400(5)		VQT2300	OPERATING INSTRUCTIONS	1	NV-D80B (ENGLISH)<!>
400(5)		VQT2299	OPERATING INSTRUCTIONS	1	NV-D80EV (SWEDISH,
					DANISH,DUTCH) <!>
400(5)		VQT2303	OPERATING INSTRUCTIONS	1	NV-D80EV (ITALIAN,
					SPANISH,FINNISH) <!
401(5)		VJA0376	DIN RF CABLE	1	
402(5)		VJA0231	AUDIO CABLE	2	
403(5)		VEQ0573	REMOTE CONTROL UNIT	1	NV-D80EG/EV
403(5)		VEQ0574	REMOTE CONTROL UNIT	1	NV-D80B
404(5)		VPN1883	CUSHION (L)	1	
405(5)		VPN1882	CUSHION (R)	1	
406(5)		VPG3438	PACKING CASE	1	NV-D80EG
406(5)		VPG3440	PACKING CASE	1	NV-D80B
406(5)		VPG3439	PACKING CASE	1	NV-D80EV
407(5)		VJA0443	AC CORD	1	NV-D80EG <!>
407(5)		VJA0445	AC CORD	1	NV-D80B <!>
407(5)		VJA0449	AC CORD	1	NV-D80EV <!>
408(5)		VQC1010	PROGRAMME SHEET	1	NV-D80EG/EV
408(5)		VQC1009	PROGRAMME SHEET	1	NV-D80B
409(5)		VFC0115	DIGITAL SCANNER CASE	1	
410(5)		VEQ0549	DIGITAL SCANNER	1	NV-D80EG/EV
410(5)		VEQ0540	DIGITAL SCANNER	1	NV-D80B
411(5)		VQT2237	OPERATING INSTRUCTIONS	1	NV-D80EG/EV<!>
			(DIGITAL SCANNER)		
411(5)		VQT2285	OPERATING INSTRUCTIONS	1	NV-D80B<!>
			(DIGITAL SCANNER)		
412(5)		VPN1921	ACCESSORIES CUSHION	1	
413(5)		VFC0120	CLEANING BRUSH	1	
450(6)		VYK1655	TOP CASE UNIT	1	NV-D80EG/EV
450(6)		VYK1656	TOP CASE UNIT	1	NV-D80B
451(6)		VKM0843	BOTTOM CASE	1	
452(6)		VKF0824	BATTERY COVER	1	
453(6)		VKW0758	IR WINDOW	1	
454(6)		VSP0268	RUBBER CONTACT	1	NV-D80EG/EV
454(6)		VSP0281	RUBBER CONTACT	1	NV-D80B
455(6)		VGU3406	POWWER BUTTON	1	
456(6)		VGU3407	REC BUTTON (RED)	1	
457(6)		VGU3408	REC BUTTON (BLACK)	1	
458(6)		VGU3403	STILL BUTTON	1	
459(6)		VGU3410	STOP BUTTON	1	
460(6)		VGU3404	STILL ADV,BUTTON	1	
461(6)		VGU3412	REW BUTTON	1	
462(7)		VGU3409	PLAY BUTTON	1	
463(6)		VGU3411	FF BUTTON	1	
464(6)		VJR0229	ELECTRODE (COMMON)	1	
465(6)		VGU2274	CH BUTTON	7	
466(6)		VGU3628	TIMER REC BUTTON	1	
470(7)		VYK1628	CASE UNIT	1	NV-D80EG/EV
470(7)		VYK1626	CASE UNIT	1	VN-D80B
471(7)		VGU3710	TRANSMISSON BUTTON	1	VN-D80B
472(7)		VGU3709	POWER SW KNOB	1	
473(7)		VJR0270	ELECTRODE (A)	1	
474(7)		VJR0271	ELECTRODE (B)	1	
475(7)		VJR0272	ELECTRODE (C)	1	
476(7)		VKF0900	BATTERY COVER	1	
477(7)		VMB1691	SUPPRT ANGLE	1	
478(7)		VKW0772	SMOKE FILTER	1	
479(7)		VSQ0533	SENSOR UNIT	1	
			JIG		
		VFJ81225H3F	VHS-ALIGNMENT TAPE (PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJ.	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			SCREWDRIVER		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0283	SERVICE ALIGNMENT TOOL KIT	1	
		VFK0341	UPPER CYLINDER REMOVER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

2.NV-D80EG/EV/B Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components.use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'▮'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03410A	MAIN C.B.A.	1	NV-D80EG
			(POWER SUPPLY, SERVO,		INCLUDING THE SERVO
			LUMINANCE & CHROMINANCE,		PACK C.B.A.
			SYSTEM CONTROL, AUDIO)		(VEP02280C) WITH
					SUB SERVO PACK C.B.A.
					(VEP02281A),
					INDEX SEARCH PACK
					C.B.A. (VEP02279A),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03402D)
					WITH SECAM C.B.A.
					(VEP03452A),
					CH SELECT PACK C.B.A.
					(VEP07410A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP04173H),
					SUB INPUT/OUTPUT
					C.B.A. (VEP04174E)
		VEP03410B	MAIN C.B.A.	1	NV-D80EV
			(POWER SUPPLY, SERVO,		INCLUDING THE SERVO
			LUMINANCE & CHROMINANCE,		PACK C.B.A.
			SYSTEM CONTROL, AUDIO)		(VEP02280C) WITH
					SUB SERVO PACK C.B.A.
					(VEP02281A),
					INDEX SEARCH PACK
					C.B.A. (VEP02279A),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03402E),
					CH SELECT PACK C.B.A.
					(VEP07410B),
					INPUT/OUTPUT PACK
					C.B.A.(VEP04173K),
					SUB INPUT/OUTPUT
					C.B.A. (VEP04174E)
		VEP03410C	MAIN C.B.A.	1	NV-D80B
			(POWER SUPPLY, SERVO,		INCLUDING THE SERVO
			LUMINANCE & CHROMINANCE,		PACK C.B.A.
			SYSTEM CONTROL, AUDIO)		(VEP02280C) WITH
					SUB SERVO PACK C.B.A.
					(VEP02281A),
					INDEX SEARCH PACK
					C.B.A. (VEP02279A),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03402E),
					CH SELECT PACK C.B.A.
					(VEP07417A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP04173J),
					SUB INPUT/OUTPUT
					C.B.A. (VEP04174F)
		VEP02280C	SERVO PACK C.B.A.	1	
					INCLUDING THE SUB
					SERVO PACK C.B.A.
					(VEP02281A).
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP02281A	SUB SERVO PACK C.B.A.	1	
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP02279A	INDEX SEARCH PACK C.B.A.	1	
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP03402D	LUMINANCE & CHROMINANCE	1	NV-D80EG
			PACK C.B.A.		PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP03402E	LUMINANCE & CHROMINANCE	1	NV-D80EV/B
			PACK C.B.A.		PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP03452A	SECAM PACK C.B.A.	1	NV-D80EG
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP07410A	CH SELECT PACK C.B.A.	1	NV-D80EG
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP07410B	CH SELECT PACK C.B.A.	1	NV-D80EV
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP07417A	CH SELECT PACK C.B.A.	1	NV-D80B
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP04173H	INPUT/OUTPUT PACK C.B.A.	1	NV-D80EG
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP04173K	INPUT/OUTPUT PACK C.B.A.	1	NV-D80EV
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP04173J	INPUT/OUTPUT PACK C.B.A.	1	NV-D80B
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP04174E	SUB INPUT/OUTPUT C.B.A.	1	NV-D80EG/EV

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP04174F	SUB INPUT/OUTPUT C.B.A.	1	NV-D80B
					PARTS LIST IS
					INCLUDED IN MAIN
					C.B.A.
		VEP03413A	DIGITAL C.B.A.	1	
					INCLUDING THE GATE
					ARRAY C.B.A.
					(VEP00J43A)
		VEP00J43A	GATE ARRY C.B.A.	1	
		VEP03414A	SUB DIGITAL C.B.A.	1	
		VEP03485A	SYNC GENERATOR C.B.A.	1	NV-D80EG/EV
					INCLUDING THE
					ELECTRONIC LOCK
					RELEASED SW C.B.A.
					(VEK3441)
		VEP03485B	SYNC GENERATOR C.B.A.	1	NV-D80B
		VEK3441	ELECTRONIC LOCK RELEASED SW	1	NV-D80EG/EV
			C.B.A.		
		VEP04179C	FM AUDIO C.B.A.	1	
					INCLUDING THE SUB
					FM AUDIO PACK
					C.B.A. (VEP00H59B).
		VEP00H59B	SUB FM AUDIO PACK C.B.A.	1	
					PARTS LIST IS
					INCLUDED IN FM
					AUDIO C.B.A.
					(VEP04179C).
		VEP05106C	HEAD AMP C.B.A.	1	
		VEP06404A	OPERATION C.B.A.	1	NV-D80EG
		VEP06404B	OPERATION C.B.A.	1	NV-D80EV/B
		VEP07411A	TIMER C.B.A.	1	NV-D80EG/EV
					INCLUDING THE IR
					RECEIVER C.B.A.
					(VEP06380B).
		VEP07411C	TIMER C.B.A.	1	NV-D80B
					INCLUDING THE IR
					RECEIVER C.B.A.
					(VEP06380B).
		VEP06380B	IR RECEIVER C.B.A.	1	
					PARTS LIST IS

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
					INCLUDED IN TIMER
					C.B.A. (VEP07391A).
		VEP07406D	TV DEMODULATOR INTERFACE	1	NV-D80EG
			C.B.A.		INCLUDING THE
					TV DEMODULATOR C.B.A.
					(VEP07357G), TUNER/ARU
					C.B.A. (VEP07358D),
					MUTING C.B.A.
					(VEP07364A), DECODER
					C.B.A. (VEP07359A)
		VEP07406B	TV DEMODULATOR INTERFACE	1	NV-D80EV
			C.B.A.		INCLUDING THE
					TV DEMODULATOR C.B.A.
					(VEP07357F), TUNER/ARU
					C.B.A. (VEP07372D),
					DECODER C.B.A.
					(VEP07359A)
		VEP00H51C	TV DEMODULATOR INTERFACE	1	NV-D80B
			C.B.A.		INCLUDING THE
					TV DEMODULATOR C.B.A.
					(VEP07376A), TUNER/ARU
					C.B.A. (VEP07373A),
					MUTING C.B.A.
					(VEP07364A)
		VEP07357G	TV DEMODULATOR C.B.A.	1	NV-D80EG
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07357F	TV DEMODULATOR C.B.A.	1	NV-D80EV
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07376A	TV DEMODULATOR C.B.A.	1	NV-D80B
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07358D	TUNER/ARU C.B.A.	1	NV-D80EG
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07372D	TUNER/ARU C.B.A.	1	NV-D80EV
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07373A	TUNER/ARU C.B.A.	1	NV-D80B
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07364A	MUTING C.B.A	1	NV-D80EG/B
					INCLUDED IN TV
					DEMODULATOR INTERFACE
					C.B.A.
		VEP07381A	FREQUENCY SYNTHESIZER TUNER	1	NV-D80EG
			& VPS C.B.A.		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP07381B	FREQUENCY SYNTHESIZER TUNER	1	NV-D80EV
			& VPS C.B.A.		
		VEP07359A	DECODER C.B.A.	1	NV-D80EG/EV
		VEP01274A	POWER C.B.A.	1	NV-D80EG
					INCLUDING THE POWER
					SUB PACK C.B.A.
					(VEP01295A).
		VEP01274B	POWER C.B.A.	1	NV-D80EV/B
					INCLUDING THE POWER
					SUB PACK C.B.A.
					(VEP01295A).
		VEP01295A	POWER SUB PACK C.B.A.	1	
					PARTS LIST IS
					INCLUDED IN POWER
					C.B.A.
					<!>
		VEP00J12A	HEAD PHONE JACK C.B.A.	1	NV-D80EG
		VEP00J12B	HEAD PHONE JACK C.B.A.	1	NV-D80EV/B
		VEP66008A	PROGRAMMABLE REMOTE	1	
			CONTROLLER C.B.A.		
		VEP00H22A	CYLINDER DRIVE C.B.A.	1	
		VEP00H30A	MECHANISM CONNECTION C.B.A.	1	
		VEP00H31A	REEL SENSOR C.B.A.	1	
		VXA2689	LED C.B.A. UNIT	1	
		VEP00H34A	PHOTO TR(T) C.B.A.	1	
		VEP00H35A	PHOTO TR(S) C.B.A.	1	
		VEP00H60A	FE HEAD C.B.A.	1	
		ENC87956	RF CONVERTER C.B.A.	1	NV-D80EG<!>
		ENC87954	RF CONVERTER C.B.A.	1	NV-D80EV<!>
		ENC87952	RF CONVERTER C.B.A.	1	NV-D80B<!>
		VEP66019D	DIGITAL SCANNER C.B.A.	1	NV-D80EG/EV
		VEP66019E	DIGITAL SCANNER C.B.A.	1	NV-D80B

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		TNV57808G2	TUNER	1	NV-D80EV<!>
		TNV57472G2	TUNER	1	NV-D80EG<!>
		TNV87452F2	TUNER	1	NV-D80B<!>
F1001		XBA2C16TB0	FUSE 250V 1.6A	1	<!>
F1002		XBA2C25TB0	FUSE 250V 2.5A	1	<!>
F1003		XBA2C16TB0	FUSE 250V 1.6A	1	<!>
	■	VEP03410A	MAIN C.B.A.		NV-D80EG
	■	VEP03410B	(POWER SUPPLY,SERVO		NV-D80EV
	■	VEP03410C	LUMINANCE & CHROMINANCE,		NV-D80B
			SYSTEM CONTROL,AUDIO)		
			CONNECTORS		
BP1302		VJP1262	CONNECTOR	1	
BP2001		VJP1256	CONNECTOR (MALE)	1	
BP3001		VJP1259	CONNECTOR (MALE)	1	
BP3002		VJP1256	CONNECTOR (MALE)	1	
BP6001		VJP1263	CONNECTOR (MALE)	1	
BP6004		VJP1804	CONNECTOR	1	
BP7301		VJP1804	CONNECTOR	1	
BP7303		VJP1259	CONNECTOR (MALE)	1	
BP7401		VJP1263	CONNECTOR (MALE)	1	
BP7402		VJP1258	CONNECTOR (MALE)	1	
			CAPACITORS		
C202		ECEA1HKR47	ELECTROLYTIC 50V 0.47U	1	
C203		ECUX1H562KBN	CHIP 50V 5600P	1	
C204		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C205		ECQV1H473JZ	MYLAR 50V 0.047U	1	
C206		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C207		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C208		ECEA1HKN010	ELECTROLYTIC 50V 1U	1	
C209		ECEA1HKN010	ELECTROLYTIC 50V 1U	1	
C210		ECEA0JK330	ELECTROLYTIC 6.3V 33U	1	
C212		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C213		ECQV1H683JZ	MYLAR 50V 0.068U	1	
C214		ECUX1H102KBN	CHIP 50V 1000P	1	
C215		ECEA1HKNR33	ELECTROLYTIC 50V 0.33U	1	
C216		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C217		ECEA1HKR47	ELECTROLYTIC 50V 0.47U	1	
C218		ECUX1H472KBN	CHIP 50V 4700P	1	
C219		ECQV1H334JZ	MYLAR 50V 0.33U	1	
C220		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C221		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C222		ECUX1H562KBN	CHIP 50V 5600P	1	
C223		ECQB1H223JH	MYLAR 50V 0.022U	1	
C224		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C225		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C227		ECUX1H332KBN	CHIP 50V 3300P	1	
C229		ECQB1H272JH	MYLAR 50V 2700P	1	
C230		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C231		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C232		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C234		ECUX1H102KBN	CHIP 50V 1000P	1	
C237		ECQB1H562JH	MYLAR 50V 5600P	1	
C238		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C239		ECEA0JK221	ELECTROLYTIC 6.3V 220U	1	
C240		ECEA16210	ELECTROLYTIC 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C241		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C242		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C243		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C244		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C245		ECUX1H562KBN	CHIP 50V 5600P	1	
C246		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C247		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C248		ECUX1H102KBN	CHIP 50V 1000P	1	
C249		ECCF1H101JC	CERAMIC 50V 100P	1	
C250		ECCF1H271JC	CERAMIC 50V 270P	1	
C251		ECCF1H180JC	CERAMIC 50V 18P	1	
C252		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C253		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C254		VCYD1C473MR1	SEMICONDUCTOR 16V 0.047U	1	
C255		ECKF1H332KB	CERAMIC 50V 3300P	1	
C256		ECUX1H103KBN	CHIP 50V 0.01U	1	
C301		ECEA1EKN2R2	ELECTROLYTIC 25V 2.2U	1	
C302		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C303		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C304		ECEA0JU331	ELECTROLYTIC 6.3V 330U	1	
C305		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C306		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C307		ECUX1H470JCN	CHIP 50V 47P	1	
C308		ECUX1H220JCN	CHIP 50V 22P	1	
C309		ECUX1H473ZFN	CHIP 50V 0.047U	1	
C310		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C311		ECUX1H180JCN	CHIP 50V 18P	1	
C312		ECUX1H180JCN	CHIP 50V 18P	1	
C313		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C314		ECUX1H560JCN	CHIP 50V 56P	1	
C315		ECUX1H390JCN	CHIP 50V 39P	1	
C316		ECUX1H820JCN	CHIP 50V 82P	1	
C317		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C318		ECUX1H220JCN	CHIP 50V 22P	1	
C319		ECUX1H471KBN	CHIP 50V 470P	1	
C320		ECUX1H270JCN	CHIP 50V 27P	1	
C321		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C322		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C323		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C324		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C325		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C326		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C327		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C328		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C329		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C331		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C332		ECQV1H334JZ	MYLAR 50V 0.33U	1	
C333		ECEA1HK4R7	ELECTROLYTIC 50V 4.7U	1	
C334		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C335		ECUX1H680JCN	CHIP 50V 68P	1	
C336		ECUX1H101JCN	CHIP 50V 100P	1	
C337		ECUX1H270JCN	CHIP 50V 27P	1	
C338		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C339		ECUX1H680JCN	CHIP 50V 68P	1	
C340		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C341		ECUX1H331JCN	CHIP 50V 330P	1	
C342		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C343		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C344		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C345		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C346		ECUX1E123KBN	CHIP 50V 0.012U	1	
C347		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C348		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C349		ECUX1H470JCN	CHIP 50V 47P	1	
C351		ECCF1H220JC	CERAMIC 50V 22P	1	
C352		ECQB1H562JZ	MYLAR 50V 5600P	1	
C353		ECCF1H330JC	CERAMIC 50V 33P	1	
C801		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C802		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C803		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C804		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C805		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C806		ECUX1H471KBN	CHIP 50V 470P	1	
C807		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C808		ECUX1H560JCN	CHIP 50V 56P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C809		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C810		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C811		ECUX1H180JCN	CHIP 50V 18P	1	
C812		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C813		ECUX1H330JCN	CHIP 50V 33P	1	
C814		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C815		ECQV1H154JZ	MYLAR 50V 0.15U	1	
C816		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C817		ECQV1H274JZ	MYLAR 50V 0.27U	1	
C818		ECUX1H471KBN	CHIP 50V 470P	1	
C819		ECUX1H820JCN	CHIP 50V 82P	1	
C820		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C821		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C823		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C824		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C825		ECUX1H101JCN	CHIP 50V 100P	1	
C826		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C827		ECUX1H050CCN	CHIP 50V 5P	1	
C828		ECUX1H102KBN	CHIP 50V 1000P	1	
C829		ECQV1H474JZ	MYLAR 50V 0.47U	1	
C851		ECKF1H103ZF	CERAMIC 50V 0.01U	1	NV-D80EG
C852		ECEA1CK330	ELECTROLYTIC 16V 33U	1	NV-D80EG
C853		ECEA10Z47	ELECTROLYTIC 10V 47U	1	NV-D80EG
C854		ECQV1H563JZ	MYLAR 50V 0.056U	1	NV-D80EG
C855		ECEA1CK330	ELECTROLYTIC 16V 33U	1	NV-D80EG
C856		ECKF1H103ZF	CERAMIC 50V 0.01U	1	NV-D80EG
C858		ECKF1H681KB	CERAMIC 50V 680P	1	NV-D80EG
C1101		ECEA0JU470	ELECTROLYTIC 6.3V 47U	1	
C1102		ECEA0JU470	ELECTROLYTIC 6.3V 47U	1	
C1103		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C1104		ECEA1CK101	ELECTROLYTIC 16V 100U	1	NV-D80EG/EV
C1105		ECEA1EK100	ELECTROLYTIC 25V 10U	1	
C1106		ECEA1EK470	ELECTROLYTIC 25V 47U	1	
C1107		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C1108		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C2001		ECQB1H333JH	MYLAR 50V 0.033U	1	
C2002		ECQB1H333JH	MYLAR 50V 0.033U	1	
C2003		ECQB1H333JH	MYLAR 50V 0.033U	1	
C2004		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C2005		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C2006		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C2007		ECQB1H223JH	MYLAR 50V 0.022U	1	
C2008		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C2011		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C2012		ECQB1H332KH	MYLAR 50V 3300P	1	
C2013		ECQB1H332KH	MYLAR 50V 3300P	1	
C2014		ECQB1H332KH	MYLAR 50V 3300P	1	
C2016		ECEA25247	ELECTROLYTIC 25V 4.7U	1	
C2017		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C2018		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C2019		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C2020		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C2021		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C2023		ECQV1H474JZ	MYLAR 50V 0.47U	1	
C2801		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C2802		ECQB1H223JH	MYLAR 50V 0.022U	1	
C2803		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C2804		ECKF1H181KB	CERAMIC 50V 1800P	1	
C2805		ECEA1HKN010	ELECTROLYTIC 50V 1U	1	
C2806		ECCF1H220JC	CERAMIC 50V 22P	1	
C2807		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C2808		ECQV1H124JZ	MYLAR 50V 0.12U	1	
C2809		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C2810		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C2811		ECEA1EK3R3	ELECTROLYTIC 25V 3.3U	1	
C2812		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C2813		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C2814		ECQB1H103KH	MYLAR 50V 0.01U	1	
C2815		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C2816		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C3001		ECEA1CU470	ELECTROLYTIC 16V 47U	1	
C3004		ECEA0JK220	ELECTROLYTIC 6.3V 22U	1	
C3005		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3006		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C3007		ECCF1H150JC	CERAMIC 50V 15P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3008		ECCF1H220JC	CERAMIC 50V 22P	1	
C3009		ECKF1H681KB	CERAMIC 50V 680P	1	
C3010		VCKD1H151JA	CERAMIC 50V 150P	1	
C3013		ECEA1HN010SB	ELECTROLYTIC 50V 1U	1	
C3014		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3015		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C3016		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C3018		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3019		ECCF1H220JC	CERAMIC 50V 22P	1	
C3020		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3021		ECCF1H180JC	CERAMIC 50V 18P	1	
C3022		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1U	1	
C3024		ECCF1H181JC	CERAMIC 50V 180P	1	
C3026		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3027		ECEA0JK330	ELECTROLYTIC 6.3V 33U	1	
C3901		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C3902		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C3903		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C3904		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C3905		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3906		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3907		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3908		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3909		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3910		VCYD1E332MR	SEMICONDUCTOR 25V 3300P	1	
C3911		VCYD1E332MR	SEMICONDUCTOR 25V 3300P	1	
C3951		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C4001		ECQB1H152JH	MYLAR 50V 1500P	1	
C4003		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4004		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C4005		ECEA1AK330	ELECTROLYTIC 10V 33U	1	
C4006		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4007		ECEA1CKL100	ELECTROLYTIC 16V 10U	1	
C4008		ECKF1H821KB	CERAMIC 50V 820P	1	
C4009		ECKF1H102KB	CERAMIC 50V 1000P	1	
C4010		ECQB1H123JH	MYLAR 50V 0.012U	1	
C4011		ECEA1CKL100	ELECTROLYTIC 16V 10U	1	
C4012		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C4013		ECEA1AK220	ELECTROLYTIC 10V 22U	1	
C4014		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C4015		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4016		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4017		ECQB1H473JH	MYLAR 50V 0.047U	1	
C4018		ECQB1H273JH	MYLAR 50V 0.027U	1	
C4019		ECQB1H273KH	MYLAR 50V 0.027U	1	
C4020		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4021		ECKF1H471KB	CERAMIC 50V 470P	1	
C4023		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C4024		ECQP1222JZ	MYLAR 100V 2200P	1	
C4026		ECEA16Z47	ELECTROLYTIC 16V 47U	1	
C4027		ECCD2H121K	CERAMIC 500V 120P	1	
C4028		ECEA1EK3R3	ELECTROLYTIC 25V 3.3U	1	
C4029		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C4030		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C4032		ECKF1H271KB	CERAMIC 50V 270P	1	
C4901		VCEA1CAC101E	ELECTROLYTIC 16V 100P	1	
C4902		VCEA1CAC101E	ELECTROLYTIC 16V 100P	1	
C4903		ECKF1H101KB	CERAMIC 50V 100P	1	
C4904		ECKF1H101KB	CERAMIC 50V 100P	1	
C4905		ECKF1H222KB	CERAMIC 50V 2200P	1	NV-D80EV/B
C4906		ECKF1H222KB	CERAMIC 50V 2200P	1	NV-D80EV/B
C4907		ECQB1H183JH	MYLAR 50V 0.018U	1	NV-D80EG
C4908		ECQB1H183JH	MYLAR 50V 0.018U	1	NV-D80EG
C4909		ECQB1H682JH	MYLAR 50V 6800P	1	NV-D80EG
C4910		ECQB1H682JH	MYLAR 50V 6800P	1	NV-D80EG
C4911		ECKF1H101KB	CERAMIC 50V 100P	1	NV-D80EV/B
C4912		ECKF1H101KB	CERAMIC 50V 100P	1	NV-D80EV/B
C4913		ECQB1H682JH	MYLAR 50V 6800P	1	NV-D80EG
C4914		ECQB1H682JH	MYLAR 50V 6800P	1	NV-D80EG
C4915		ECQB1H183JH	MYLAR 50V 0.018U	1	NV-D80EG
C4916		ECQB1H183JH	MYLAR 50V 0.018U	1	NV-D80EG
C4917		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C4918		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C4919		VCEA1CAD100J	ELECTROLYTIC 16V 10P	1	
C4920		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4921		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C4922		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C4923		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4924		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C4925		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C4927		VCEA1CAD100J	ELECTROLYTIC 16V 10P	1	
C4928		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4929		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4930		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4931		ECEA0JU471	ELECTROLYTIC 6.3V 470U	1	
C4951		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4952		VCEA1AAC101E	ELECTROLYTIC 10V 100P	1	
C4953		VCEA1CAC330J	ELECTROLYTIC 16V 33P	1	
C4954		VCEA1AAC330J	ELECTROLYTIC 10V 33P	1	
C4955		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4957		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4959		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4960		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4961		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4962		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4963		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4964		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4965		ECEA1EK3R3	ELECTROLYTIC 25V 3.3U	1	
C4966		ECCF1H470JC	CERAMIC 50V 47P	1	
C4967		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4968		ECQB1H222KH	MYLAR 50V 2200P	1	
C4969		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C4970		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C6001		ECEA0JK220	ELECTROLYTIC 6.3V 22U	1	
C6002		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C6003		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C6006		ECEA0JK330	ELECTROLYTIC 6.3V 33U	1	
C6007		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C6011		ECQB1H103KH	MYLAR 50V 0.01U	1	
C6012		ECQB1H103KH	MYLAR 50V 0.01U	1	
C6013		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C6017		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C6018		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C6019		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C6020		ECQB1H103KH	MYLAR 50V 0.01U	1	
C6021		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C6022		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C6023		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C6024		ECKF1H271KB	CERAMIC 50V 270P	1	
C6025		ECKF1H271KB	CERAMIC 50V 270P	1	
C6026		ECKF1H271KB	CERAMIC 50V 270P	1	
C6030		ECEA0JU331	ELECTROLYTIC 6.3V 330U	1	
C7552		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7554		ECEA1VK220	ELECTROLYTIC 35V 22U	1	
C7558		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7563		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7564		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7565		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7566		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7567		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7569		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7570		ECEA1HKN010	ELECTROLYTIC 50V 1U	1	NV-D80B
C7571		EECS5R5V473	GOLD 5.5V 0.047	1	
C7590		ECEA0JU471	ELECTROLYTIC 6.3V 470U	1	
CR4002		EXED103Z153C	C & R 0.01U 15K	1	
			DIODES		
D201		MA153	DIODE	1	
D204		MA153	DIODE	1	
D301		MA4091	DIODE	1	
D801		MA165	DIODE	1	
D802		MA165	DIODE	1	
D803		MA165	DIODE	1	
D804		MA165	DIODE	1	
D1102		MA165	DIODE	1	
D1103		MA165	DIODE	1	NV-D80EG/EV
D2003		MA165	DIODE	1	
D2004		MA165	DIODE	1	
D2007		MA165	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D2008		MA165	DIODE	1	
D2009		MA165	DIODE	1	
D2801		MA165	DIODE	1	
D2802		MA165	DIODE	1	
D2803		MA165	DIODE	1	
D2804		MA165	DIODE	1	
D3001		MA165	DIODE	1	
D3003		MA165	DIODE	1	
D3004		MA165	DIODE	1	
D3005		MA165	DIODE	1	
D3901		MA165	DIODE	1	
D3951		MA165	DIODE	1	
D4003		MA165	DIODE	1	
D4004		MA165	DIODE	1	
D4005		MA165	DIODE	1	
D4006		MA165	DIODE	1	
D4951		RD6.2JB	ZENER 6.2V	1	
D4952		MA165	DIODE	1	
D4953		MA165	DIODE	1	
D4954		MA165	DIODE	1	
D4955		MA165	DIODE	1	
D4956		MA165	DIODE	1	
D4957		MA165	DIODE	1	
D4958		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6003		MA165	DIODE	1	
D6004		MA165	DIODE	1	
D6005		MA165	DIODE	1	
D6009		MA165	DIODE	1	
D6010		MA165	DIODE	1	
D6011		MA165	DIODE	1	
D6012		MA165	DIODE	1	
D6017		ERA15-01	DIODE	1	
D6018		MA4056M	DIODE	1	
D6019		MA4140M	DIODE	1	
D6020		MA4110M	DIODE	1	
D6021		MA165	DIODE	1	
D6022		MA165	DIODE	1	
D6023		MA165	DIODE	1	
D6024		MA165	DIODE	1	
D6028		MA165	DIODE	1	
D6029		MA165	DIODE	1	
D6030		MA4056L	DIODE	1	
D7550		MA165	DIODE	1	
D7551		MA165	DIODE	1	
D7558		MA165	DIODE	1	NV-D80B
D7559		MA165	DIODE	1	NV-D80B
D7560		MA165	DIODE	1	NV-D80B
			DELAY LINES		
DL801		VLD0089	DELAY LINE	1	
DL802		EFDHR124A13A	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL851		VLF0143	FILTER	1	NV-D80EG
FL3901		ELB4H020	FILTER	1	NV-D80EG/EV
FL4001		VLF0332	FILTER	1	
			ICS		
IC201		UPD6160CA606	IC	1	
IC202		MN15311VBS	IC	1	
IC203		AN6562	IC	1	
IC301		VEFH03A	IC	1	
IC302		AN3494NK	IC	1	
IC303		MSM6965-3RS	IC	1	
IC801		VEF H04A	IC	1	
IC851		BA7025L	IC	1	NV-D80EG
IC2001		BA6430S	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC2801		BA6305	IC	1	
IC2802		MN4013B	IC	1	
IC2803		AN6914	IC	1	
IC2804		UPC358C	IC	1	
IC3901		TA7348P	IC	1	
IC3902		BA7004	IC	1	
IC3951		UPD4001BC	IC	1	
IC4001		BA7752LS	IC	1	
IC4901		M51132L	IC	1	
IC4951		UPD4052BC	IC	1	
IC4952		AN6558	IC	1	
IC4953		UPC4558C	IC	1	
IC4954		M5201L	IC	1	
IC6001		MN15362VBR	IC	1	OR MN15362VJR
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN1280	IC	1	
IC7551		AN5034	IC	1	
IC7552		AN6913	IC	1	NV-D80B
IC7553		MN4066B	IC	1	NV-D80B
			PACK PINS		
KR851		VJR0163	PACK PIN	1	
			COILS		
L202		VLQEL05F101K	COIL 100UH	1	
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303		VLQ0213K010T	COIL	1	
L304		VLQEL05F121K	COIL 120UH	1	
L305		VLQEL05F680K	COIL 68UH	1	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309		VLQEL05F101K	COIL 100UH	1	
L310		VLQEL05F101K	COIL 100UH	1	
L801		VLQEL05F101K	COIL 100UH	1	
L802		VLQEL05F150K	COIL 15UH	1	
L803		VLQEL05F150K	COIL 15UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L851		VLQEL05F101K	COIL 100UH	1	NV-D80EG
L2001		VLQEL05F102K	COIL 1000UH	1	
L3001		VLQEL05F101K	COIL 100UH	1	
L3002		VLQEL05F101K	COIL 100UH	1	
L3003		VLQEL05F120K	COIL 12UH	1	
L3004		VLQEL05F101K	COIL 100UH	1	
L3005		VLQEL05F6R8K	COIL 6.8UH	1	
L3006		VLQEL05F5R6K	COIL	1	
L3901		VLQEL05F101K	COIL 100UH	1	
L3902		VLQEL05F101K	COIL 100UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F101K	COIL 100UH	1	
L4901		VLQEL05F102K	COIL 1000UH	1	NV-D80EG
L4902		VLQEL05F102K	COIL 1000UH	1	NV-D80EG
L4903		VLQEL05F102K	COIL 1000UH	1	NV-D80EG
L4904		VLQEL05F102K	COIL 1000UH	1	NV-D80EG
L4905		VLQEL05F101K	COIL 100UH	1	
L4906		VLQEL05F101K	COIL 100UH	1	
			CONNECTORS		
P201		VJS1904	CONNECTOR	1	
P501		VJS1235T	CONNECTOR (FEMALE)	1	
P502		VJS1236T	CONNECTOR (FEMALE)	1	
P701		VJS1737T	CONNECTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P702		VJS1239T	CONNECTOR	1	
P703		VJS1235T	CONNECTOR (FEMALE)	1	
P1101		VJP1231R	CONNECTOR(MALE) 4P	1	
P1504		VJS1239T	CONNECTOR	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2801		VJP1231T	CONNECTOR(MALE) 4P	1	
P2801		VJS1737T	CONNECTOR	1	
P2901		VJS1232T	CONNECTOR (FEMALE)	1	
P3003		VJP1236R	CONNECTOR	1	
P3004		VJP1229	CONNECTOR(MALE) 2P	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P4003		VJS1446	CONNECTOR(FEMALE)	1	
P4004		VJP1141	CONNECTOR(MALE) 2P	1	
P4502		VJS1231T	CONNECTOR (FEMALE)	1	
P4951		VJP1231T	CONNECTOR(MALE) 4P	1	
P6002		VJS1935	CONNECTOR (FEMALE)	1	
P6003		VJP1931T	CONNECTOR	1	
P6005		VJP1141	CONNECTOR(MALE) 2P	1	
P6006		VJP1233T	CONNECTOR(MALE) 6P	1	
P6007		VJP1234T	CONNECTOR(MALE) 7P	1	
P6008		VJP1229T	CONNECTOR(MALE) 2P	1	NV-D80B
P6008		VJP1230T	CONNECTOR(MALE) 3P	1	NV-D80EG/EV
P6009		VJP1229T	CONNECTOR(MALE) 2P	1	
P7302		VJS1961	CONNECTOR(FEMALE) 11P	1	NV-D80B
P7403		VJP1234T	CONNECTOR(MALE) 7P	1	
P7404		VJS1475	CONNECTOR(FEMALE)	1	
P7405		VJP1234R	CONNECTOR(MALE) 7P	1	NV-D80EG/EV
P7503		VJS1239T	CONNECTOR	1	
P7504		VJS1234R	CONNECTOR	1	
			PACK PINS		
PK201		VJR0189	PACK PIN	1	
PK202		VJR0190	PACK PIN	1	
PK203		VJR0190	PACK PIN	1	
PK7501		VJR0188	PACK PIN	1	
PK7502		VJR0275	PACK PIN	1	
			TRANSISTORS		
Q201		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q202		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q203		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q204		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q205		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q206		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q207		2SC2206	TRANSISTOR	1	(B,C)
Q208		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q301		2SB709	TRANSISTOR CHIP	1	
Q302		2SC2295	TRANSISTOR	1	
Q303		2SC2295	TRANSISTOR	1	
Q304		2SD601	TRANSISTOR CHIP	1	
Q801		2SD601	TRANSISTOR	1	(R)
Q802		2SC2295	TRANSISTOR	1	
Q803		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q1102		2SD655	TRANSISTOR	1	(E,F) NV-D80EG/EV
Q1103		2SC1384S	TRANSISTOR	1	NV-D80EG/EV
Q2001		2SB641	TRANSISTOR	1	(Q,R,S)
Q2002		2SD636	TRANSISTOR	1	(Q,R,S)
Q2801		2SD636	TRANSISTOR	1	(Q,R,S)
Q2802		2SB641	TRANSISTOR	1	(Q,R,S)
Q2803		2SD636	TRANSISTOR	1	(Q,R,S)
Q2804		2SD636	TRANSISTOR	1	(Q,R,S)
Q2805		2SD636	TRANSISTOR	1	(Q,R,S)
Q2806		2SD636	TRANSISTOR	1	(Q,R,S)
Q2807		2SD636	TRANSISTOR	1	(Q,R,S)
Q2808		2SD636	TRANSISTOR	1	(Q,R,S)
Q3001		2SB641	TRANSISTOR	1	(Q,R,S)
Q3003		2SD636	TRANSISTOR	1	(Q,R,S)
Q3004		2SC2206	TRANSISTOR	1	(A,B,C)
Q3005		2SD636	TRANSISTOR	1	(Q,R,S)
Q3050		2SD636	TRANSISTOR	1	
Q3901		2SC2206	TRANSISTOR	1	
Q3951		2SB641	TRANSISTOR	1	(Q,R,S)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q4001		2SD639	TRANSISTOR	1	(R)
Q4002		2SD637	TRANSISTOR	1	
Q4003		2SD637	TRANSISTOR	1	
Q4004		2SB642	TRANSISTOR	1	
Q4006		2SD636	TRANSISTOR	1	
Q4007		2SB643	TRANSISTOR	1	
Q4901		2SD1330	TRANSISTOR	1	
Q4951		2SD636	TRANSISTOR	1	(Q,R,S)
Q6006		2SB641	TRANSISTOR	1	NV-D80B
Q6007		2SB790	TRANSISTOR	1	(Q,R,S)
Q6008		2SB790	TRANSISTOR	1	(Q,R,S)
Q6009		2SB790	TRANSISTOR	1	(Q,R,S)
Q6010		2SB790	TRANSISTOR	1	(Q,R,S)
Q6011		2SB790	TRANSISTOR	1	(Q,R,S)
Q6015		2SD638	TRANSISTOR	1	(R,S)
Q6016		2SD1783	TRANSISTOR	1	
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(Q,R,S)
Q6019		2SD638	TRANSISTOR	1	(Q,R,S)
Q7553		2SD636	TRANSISTOR	1	(Q,R,S)
			COMBINATION PARTS		
QR201		UN2113	TRANSISTOR-RESISTOR	1	
QR202		UN2113	TRANSISTOR-RESISTOR	1	
QR203		UN2212	TRANSISTOR-RESISTOR	1	
QR301		UN2212	TRANSISTOR-RESISTOR	1	
QR302		UN2212	TRANSISTOR-RESISTOR	1	
QR303		UN2212	TRANSISTOR-RESISTOR	1	
QR801		UN2212	TRANSISTOR-RESISTOR	1	
QR852		UN1213	TRANSISTOR-RESISTOR	1	NV-D80EG
QR853		UN1213	TRANSISTOR-RESISTOR	1	NV-D80EG
QR1101		UN1213	TRANSISTOR-RESISTOR	1	
QR1102		UN1211	TRANSISTOR-RESISTOR	1	NV-D80EG/EV
QR2002		UN1212	TRANSISTOR-RESISTOR	1	
QR2003		UN1112	TRANSISTOR-RESISTOR	1	
QR2004		UN1112	TRANSISTOR-RESISTOR	1	
QR2006		UN1213	TRANSISTOR-RESISTOR	1	
QR2007		UN1213	TRANSISTOR-RESISTOR	1	
QR2801		DTC144EA	TRANSISTOR RESISTOR	1	OR UN1213
QR2802		DTC144EA	TRANSISTOR RESISTOR	1	OR UN1213
QR2803		DTC144EA	TRANSISTOR RESISTOR	1	OR UN1213
QR2804		DTC114EA	TRANSISTOR RESISTOR	1	
QR3001		UN1111	TRANSISTOR-RESISTOR	1	
QR3002		UN1212	TRANSISTOR-RESISTOR	1	
QR3003		UN1113	TRANSISTOR-RESISTOR	1	
QR3004		UN1214	TRANSISTOR-RESISTOR	1	
QR3006		UN1213	TRANSISTOR-RESISTOR	1	
QR3007		2SD1676	COMBINATION PARTS	1	
QR3008		2SD1676	COMBINATION PARTS	1	
QR4002		UN1113	TRANSISTOR-RESISTOR	1	
QR4003		UN1216	TRANSISTOR-RESISTOR	1	
QR4004		UN1213	TRANSISTOR-RESISTOR	1	OR DTC144EA
QR6001		UN1212	TRANSISTOR-RESISTOR	1	
QR6004		UN1213	TRANSISTOR-RESISTOR	1	
QR6005		UN1213	TRANSISTOR-RESISTOR	1	
QR6006		UN1111	TRANSISTOR-RESISTOR	1	
QR6008		UN1111	TRANSISTOR-RESISTOR	1	
QR6010		UN1111	TRANSISTOR-RESISTOR	1	
QR6011		UN1212	TRANSISTOR-RESISTOR	1	
QR6012		UN1113	TRANSISTOR-RESISTOR	1	
QR6013		UN1213	TRANSISTOR-RESISTOR	1	
QR7551		UN1213	TRANSISTOR-RESISTOR	1	NV-D80EG
QR7553		UN1112	TRANSISTOR-RESISTOR	1	NV-D80EG
QR7554		UN1112	TRANSISTOR-RESISTOR	1	NV-D80EG
QR7555		UN1213	TRANSISTOR-RESISTOR	1	NV-D80EG
QR7556		UN1213	TRANSISTOR-RESISTOR	1	NV-D80B
QR7557		UN1213	TRANSISTOR-RESISTOR	1	NV-D80B
QR7558		UN1213	TRANSISTOR-RESISTOR	1	NV-D80B
QR7559		UN1213	TRANSISTOR-RESISTOR	1	NV-D80B
QR7561		UN1213	TRANSISTOR-RESISTOR	1	NV-D80EG
			RESISTORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R201		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R202		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R203		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R204		ERJ6GMYJ221	CHIP 1/16W 220	1	
R205		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R206		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R207		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R208		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R209		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R210		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R211		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R212		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R213		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R214		ERJ6GMYJ224	CHIP 1/16W 220K	1	
R215		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R216		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R217		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R218		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R219		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R220		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R221		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R222		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R223		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R224		ERJ6GMYJ561	CHIP 1/16W 560	1	
R225		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R226		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R227		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R228		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R229		ERJ6GMYJ221	CHIP 1/16W 220	1	
R230		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R231		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R232		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R233		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R234		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R235		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R236		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R237		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R238		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R239		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R240		ERJ6GMYG333	CHIP 1/16W 33K	1	
R241		ERJ6GMYJ680	CHIP 1/16W 680K	1	
R243		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R244		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R245		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R246		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R247		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R248		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R249		ERJ6GMYG472	CHIP 1/16W 4.7K	1	
R250		ERJ6GMYJ821	CHIP 1/16W 820	1	
R251		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R252		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R253		ERJ6GMYJ680	CHIP 1/16W 680K	1	
R256		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R257		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R258		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R259		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R260		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R262		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R263		ERDS2TJ561	CARBON 1/4W 560	1	
R264		ERDS2TJ333	CARBON 1/4W 33K	1	
R265		ERDS2TJ103	CARBON 1/4W 10K	1	
R266		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R267		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R268		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R269		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R301		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/16W 390	1	
R303		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/16W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R311		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R312		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R313		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R314		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R315		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/16W 470	1	
R318		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R319		ERJ6GMYJ823	CHIP 1/16W 82K	1	
R320		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R321		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R322		ERJ6GMYJ391	CHIP 1/16W 390	1	
R323		ERJ6GMYJ471	CHIP 1/16W 470	1	
R324		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R325		ERJ6GMYJ151	CHIP 1/16W 150	1	
R326		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R327		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R334		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R335		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R338		ERDS2TJ474	CARBON 1/4W 470K	1	
R801		ERJ6GMYJ271	CHIP 1/16W 270	1	
R802		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R803		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R804		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R805		ERJ6GMYJ471	CHIP 1/16W 470	1	
R806		ERJ6GMYJ471	CHIP 1/16W 470	1	
R807		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R808		ERJ6GMYJ681	CHIP 1/16W 680	1	
R809		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R810		ERJ6GMYJ331	CHIP 1/16W 330	1	
R811		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R812		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R813		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R814		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R815		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R817		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R818		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R821		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R822		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R823		ERJ6GMYJ271	CHIP 1/16W 270	1	
R824		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R851		ERDS2TJ223	CARBON 1/4W 22K	1	NV-D80EG
R852		ERDS2TJ390	CARBON 1/4W 39	1	NV-D80EG
R853		ERDS2TJ154	CARBON 1/4W 150K	1	NV-D80EG
R854		ERDS2TJ222	CARBON 1/4W 2.2K	1	NV-D80EG
R855		ERDS2TJ102	CARBON 1/4W 1K	1	NV-D80EG
R856		ERDS2TJ103	CARBON 1/4W 10K	1	NV-D80EG
R858		ERDS2TJ221	CARBON 1/4W 220	1	NV-D80EG
R1102		ERDS2TJ152	CARBON 1/4W 1.5K	1	NV-D80EG/EV
R1103		ERDS2TJ152	CARBON 1/4W 1.5K	1	NV-D80EG/EV
R1104		ERDS2TJ103	CARBON 1/4W 10K	1	NV-D80EG/EV
R1105		ERDS2TJ561	CARBON 1/4W 560	1	
R2001		ERDS2TJ330	CARBON 1/4W 33	1	
R2002		ERDS2TJ330	CARBON 1/4W 33	1	
R2003		ERDS2TJ330	CARBON 1/4W 33	1	
R2004		ERX12SJ1R0	METAL OXIDE 1/2W 1	1	
R2005		ERDS2TJ102	CARBON 1/4W 1K	1	
R2006		EROS2CKG5101	METAL OXIDE 1/4W 5.1K	1	
R2007		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R2008		EROS2CKG6801	METAL OXIDE 1/4W 6.8K	1	
R2009		EROS2CKG4701	METAL OXIDE 1/4W 4.7K	1	
R2010		ERDS2TJ223	CARBON 1/4W 22K	1	
R2011		ERDS2TJ102	CARBON 1/4W 1K	1	
R2012		ERDS2TJ103	CARBON 1/4W 10K	1	
R2013		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R2014		ERDS2TJ222	CARBON 1/4W 2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2018		ERDS2TJ330	CARBON 1/4W 33	1	
R2029		ERDS2TJ683	CARBON 1/4W 68K	1	
R2030		ERDS2TJ333	CARBON 1/4W 33K	1	
R2031		ERDS2TJ473	CARBON 1/4W 47K	1	
R2032		ERDS2TJ124	CARBON 1/4W 120K	1	
R2033		ERDS2TJ683	CARBON 1/4W 68K	1	
R2034		ERDS2TJ391	CARBON 1/4W 390	1	
R2036		ERDS2TJ103	CARBON 1/4W 10K	1	
R2037		ERDS2TJ104	CARBON 1/4W 100K	1	
R2039		ERDS2TJ473	CARBON 1/4W 47K	1	
R2800		ERDS2TJ104	CARBON 1/4W 100K	1	
R2801		ERDS2TJ103	CARBON 1/4W 10K	1	
R2802		ERDS2TJ103	CARBON 1/4W 10K	1	
R2803		ERDS2TJ561	CARBON 1/4W 560	1	
R2804		ERDS2TJ393	CARBON 1/4W 39K	1	
R2805		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R2806		ERDS2TJ221	CARBON 1/4W 220	1	
R2807		ERDS2TJ823	CARBON 1/4W 82K	1	
R2808		ERDS2TJ103	CARBON 1/4W 10K	1	
R2809		ERDS2TJ750	CARBON 1/4W 75	1	
R2810		ERDS2TJ124	CARBON 1/4W 120K	1	
R2811		EROS2CKG1102	METAL OXIDE 1/4W 11K	1	
R2812		ERDS2TJ153	CARBON 1/4W 15K	1	
R2813		ERDS2TJ221	CARBON 1/4W 220	1	
R2814		ERDS2TJ102	CARBON 1/4W 1K	1	
R2815		ERDS2TJ473	CARBON 1/4W 47K	1	
R2816		ERDS2TJ473	CARBON 1/4W 47K	1	
R2817		ERDS2TJ223	CARBON 1/4W 22K	1	
R2818		ERDS2TJ102	CARBON 1/4W 1K	1	
R2819		ERDS2TJ124	CARBON 1/4W 120K	1	
R2820		ERDS2TJ221	CARBON 1/4W 220	1	
R2821		ERDS2TJ103	CARBON 1/4W 10K	1	
R2822		ERDS2TJ124	CARBON 1/4W 120K	1	
R2823		ERDS2TJ273	CARBON 1/4W 27K	1	
R2824		ERDS2TJ154	CARBON 1/4W 150K	1	
R2825		ERDS2TJ102	CARBON 1/4W 1K	1	
R2826		ERDS2TJ154	CARBON 1/4W 150K	1	
R2827		ERDS2TJ153	CARBON 1/4W 15K	1	
R2828		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R2829		ERDS2TJ681	CARBON 1/4W 680	1	
R2830		ERDS2TJ683	CARBON 1/4W 68K	1	
R2831		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R2832		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R2833		ERDS2TJ103	CARBON 1/4W 10K	1	
R2834		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R2835		ERDS2TJ105	CARBON 1/4W 1000K	1	
R2836		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R2837		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R2838		ERDS2TJ223	CARBON 1/4W 22K	1	
R2839		ERDS2TJ102	CARBON 1/4W 1K	1	
R2840		ERDS2TJ102	CARBON 1/4W 1K	1	
R3001		ERDS2TJ471	CARBON 1/4W 470	1	
R3004		ERDS2TJ103	CARBON 1/4W 10K	1	
R3005		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3006		ERDS2TJ561	CARBON 1/4W 560	1	
R3008		ERDS2TJ102	CARBON 1/4W 1K	1	
R3011		ERDS2TJ102	CARBON 1/4W 1K	1	
R3012		ERDS2TJ561	CARBON 1/4W 560	1	
R3013		ERDS2TJ223	CARBON 1/4W 22K	1	
R3014		ERDS2TJ103	CARBON 1/4W 10K	1	
R3015		ERDS2TJ103	CARBON 1/4W 10K	1	
R3017		ERDS2TJ471	CARBON 1/4W 470	1	
R3018		ERDS2TJ102	CARBON 1/4W 1K	1	
R3050		ERDS2TJ473	CARBON 1/4W 47K	1	
R3901		ERDS2TJ750	CARBON 1/4W 75	1	
R3902		ERDS2TJ750	CARBON 1/4W 75	1	
R3903		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3904		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3905		ERDS2TJ104	CARBON 1/4W 100K	1	
R3906		ERDS2TJ750	CARBON 1/4W 75	1	
R3907		ERDS2TJ750	CARBON 1/4W 75	1	
R3909		ERDS2TJ750	CARBON 1/4W 75	1	
R3910		ERDS2TJ750	CARBON 1/4W 75	1	
R3911		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R3912		ERDS2TJ392	CARBON 1/4W 3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3913		ERDS2TJ102	CARBON 1/4W 1K	1	
R3914		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R3915		ERDS2TJ561	CARBON 1/4W 560	1	
R3951		ERDS2TJ750	CARBON 1/4W 75	1	
R3952		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R3953		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R3954		ERDS2TJ684	CARBON 1/4W 680K	1	
R3955		ERDS2TJ684	CARBON 1/4W 680K	1	
R4001		ERDS2TJ100	CARBON 1/4W 10	1	
R4002		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R4004		ERDS2TJ563	CARBON 1/4W 56K	1	
R4005		EROS2CKG1301	METAL OXIDE 1/4W 1.3K	1	
R4006		ERDS2TJ123	CARBON 1/4W 12K	1	
R4009		ERDS2TJ823	CARBON 1/4W 82K	1	
R4010		ERDS2TJ683	CARBON 1/4W 68K	1	
R4011		ERDS2TJ334	CARBON 1/4W 330K	1	
R4012		ERDS2TJ331	CARBON 1/4W 330	1	
R4013		ERDS2TJ103	CARBON 1/4W 10K	1	
R4014		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4015		ERDS2TJ105	CARBON 1/4W 1000K	1	
R4016		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R4017		ERDS2TJ223	CARBON 1/4W 22K	1	
R4018		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R4019		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4020		EROS2CKG1602	METAL OXIDE 1/4W 16K	1	
R4021		ERDS2TJ103	CARBON 1/4W 10K	1	
R4022		ERDS2TJ123	CARBON 1/4W 12K	1	
R4023		ERDS2TJ333	CARBON 1/4W 33K	1	
R4024		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R4025		ERDS2TJ151	CARBON 1/4W 150	1	
R4026		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R4027		ERDS2TJ561	CARBON 1/4W 560	1	
R4030		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4031		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4032		ERDS2TJ470	CARBON 1/4W 47	1	
R4033		ERDS2TJ104	CARBON 1/4W 100K	1	
R4036		ERDS2TJ223	CARBON 1/4W 22K	1	
R4037		ERDS2TJ561	CARBON 1/4W 560	1	
R4038		ERDS2TJ100	CARBON 1/4W 10	1	
R4040		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4041		ERDS2TJ183	CARBON 1/4W 18K	1	
R4901		ERDS2TJ102	CARBON 1/4W 1K	1	
R4902		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4903		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4904		ERDS2TJ101	CARBON 1/4W 100	1	
R4905		ERDS2TJ101	CARBON 1/4W 100	1	
R4906		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EV/B
R4907		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EV/B
R4908		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EG
R4909		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EG
R4910		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4911		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4912		ERDS2TJ221	CARBON 1/4W 220	1	
R4913		ERDS2TJ221	CARBON 1/4W 220	1	
R4914		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EV/B
R4915		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EV/B
R4916		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EG
R4917		ERDS2TJ471	CARBON 1/4W 470	1	NV-D80EG
R4918		ERDS2TJ224	CARBON 1/4W 220K	1	
R4919		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R4920		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R4922		EROS2CKG2201	METAL OXIDE 1/4W 2.2K	1	
R4923		EROS2CKG2201	METAL OXIDE 1/4W 2.2K	1	
R4951		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4952		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4953		ERDS2TJ153	CARBON 1/4W 15K	1	
R4954		ERDS2TJ473	CARBON 1/4W 47K	1	
R4955		ERDS2TJ473	CARBON 1/4W 47K	1	
R4956		ERDS2TJ473	CARBON 1/4W 47K	1	
R4957		ERDS2TJ473	CARBON 1/4W 47K	1	
R4958		EROS2CKG2702	METAL OXIDE 1/4W 27K	1	NV-D80EG/EV
R4958		EROS2CKG4701	METAL OXIDE 1/4W 4.7K	1	NV-D80B
R4959		EROS2CKG2702	METAL OXIDE 1/4W 27K	1	NV-D80EG/EV
R4959		EROS2CKG4701	METAL OXIDE 1/4W 4.7K	1	NV-D80B
R4960		ERDS2TJ683	CARBON 1/4W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4961		ERDS2TJ153	CARBON 1/4W 15K	1	
R4962		ERDS2TJ153	CARBON 1/4W 15K	1	
R4963		ERDS2TJ153	CARBON 1/4W 15K	1	
R4964		ERDS2TJ153	CARBON 1/4W 15K	1	
R4965		ERDS2TJ153	CARBON 1/4W 15K	1	
R4966		ERDS2TJ474	CARBON 1/4W 470K	1	
R4967		ERDS2TJ474	CARBON 1/4W 470K	1	
R4968		ERDS2TJ683	CARBON 1/4W 68K	1	
R4969		ERDS2TJ474	CARBON 1/4W 470K	1	
R4970		ERDS2TJ474	CARBON 1/4W 470K	1	
R4971		ERDS2TJ684	CARBON 1/4W 680K	1	
R4972		ERDS2TJ684	CARBON 1/4W 680K	1	
R4973		ERDS2TJ563	CARBON 1/4W 56K	1	
R4974		EROS2CKG3902	METAL OXIDE 1/4W 39K	1	
R4975		ERDS2TJ474	CARBON 1/4W 470K	1	
R4976		EROS2CKG3902	METAL OXIDE 1/4W 39K	1	
R4977		ERDS2TJ123	CARBON 1/4W 12K	1	
R4978		ERDS2TJ474	CARBON 1/4W 470K	1	
R4979		ERDS2TJ473	CARBON 1/4W 47K	1	
R4980		ERDS2TJ473	CARBON 1/4W 47K	1	
R4981		ERDS2TJ123	CARBON 1/4W 12K	1	
R4982		ERDS2TJ473	CARBON 1/4W 47K	1	
R4983		ERDS2TJ123	CARBON 1/4W 12K	1	
R4984		ERDS2TJ473	CARBON 1/4W 47K	1	
R4985		ERDS2TJ474	CARBON 1/4W 470K	1	
R4986		ERDS2TJ474	CARBON 1/4W 470K	1	
R4987		ERDS2TJ124	CARBON 1/4W 120K	1	
R4988		ERDS2TJ104	CARBON 1/4W 100K	1	
R4989		ERDS2TJ124	CARBON 1/4W 120K	1	
R4990		ERDS2TJ473	CARBON 1/4W 47K	1	
R4991		ERDS2TJ473	CARBON 1/4W 47K	1	
R4992		ERDS2TJ473	CARBON 1/4W 47K	1	
R4993		ERDS2TJ473	CARBON 1/4W 47K	1	
R4994		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R4995		ERDS2TJ393	CARBON 1/4W 39K	1	
R4996		ERDS2TJ123	CARBON 1/4W 12K	1	
R6001		ERDS1TJ470	CARBON 1/2W 47	1	
R6002		ERDS2TJ473	CARBON 1/4W 47K	1	
R6005		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6006		ERD2FCG220	CARBON 2W 22	1	<!>
R6007		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R6008		ERDS2TJ181	CARBON 1/4W 180	1	
R6009		ERDS2TJ561	CARBON 1/4W 560	1	
R6010		ERDS2TJ102	CARBON 1/4W 1K	1	
R6011		ERDS2TJ221	CARBON 1/4W 220	1	
R6016		ERDS2TJ223	CARBON 1/4W 22K	1	
R6017		ERDS2TJ223	CARBON 1/4W 22K	1	
R6019		ERDS2TJ153	CARBON 1/4W 15K	1	
R6022		ERDS2TJ223	CARBON 1/4W 22K	1	
R6023		ERDS2TJ683	CARBON 1/4W 68K	1	
R6024		ERDS2TJ223	CARBON 1/4W 22K	1	
R6025		ERDS2TJ824	CARBON 1/4W 820K	1	
R6026		ERDS2TJ105	CARBON 1/4W 1000K	1	
R6027		ERDS2TJ223	CARBON 1/4W 22K	1	
R6028		ERDS2TJ184	CARBON 1/4W 180K	1	
R6029		ERDS2TJ561	CARBON 1/4W 560	1	
R6030		ERDS2TJ153	CARBON 1/4W 15K	1	
R6031		ERDS2TJ153	CARBON 1/4W 15K	1	
R6032		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6033		ERDS2TJ333	CARBON 1/4W 33K	1	
R6034		ERDS2TJ333	CARBON 1/4W 33K	1	
R6035		ERDS2TJ101	CARBON 1/4W 100	1	
R6036		ERDS2TJ101	CARBON 1/4W 100	1	
R6037		ERDS2TJ101	CARBON 1/4W 100	1	
R6038		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R6041		ERDS2TJ391	CARBON 1/4W 390	1	
R6042		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6045		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R6046		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R6047		ERDS2TJ681	CARBON 1/4W 680	1	
R6048		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R6049		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6050		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R6051		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6052		ERDS2TJ562	CARBON 1/4W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6053		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6054		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R6055		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6067		ERDS2TJ101	CARBON 1/4W 100	1	
R6068		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R6069		ERDS2TJ103	CARBON 1/4W 10K	1	
R6070		ERDS2TJ102	CARBON 1/4W 1K	1	
R6071		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R6072		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R6073		ERDS2TJ391	CARBON 1/4W 390	1	
R6074		ERDS2TJ561	CARBON 1/4W 560	1	
R6075		ERG2SJ180	METAL OXIDE 2W 18	1	
R6076		ERDS2TJ181	CARBON 1/4W 180	1	
R6077		ERDS2TJ271	CARBON 1/4W 270	1	
R6079		ERDS2TJ103	CARBON 1/4W 10K	1	
R6080		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R6081		ERDS2TJ103	CARBON 1/4W 10K	1	
R6082		ERDS2TJ473	CARBON 1/4W 47K	1	
R6083		ERDS2TJ104	CARBON 1/4W 100K	1	
R6084		ERDS2TJ561	CARBON 1/4W 560	1	
R6085		ERDS2TJ561	CARBON 1/4W 560	1	
R6086		ERDS2TJ103	CARBON 1/4W 10K	1	
R6087		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R6088		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R6089		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R6090		ERDS2TJ821	CARBON 1/4W 820	1	
R7551		ERDS2TJ104	CARBON 1/4W 100K	1	
R7554		ERDS2TJ102	CARBON 1/4W 1K	1	
R7555		ERDS2TJ102	CARBON 1/4W 1K	1	
R7556		ERDS2TJ473	CARBON 1/4W 47K	1	
R7562		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7563		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7570		ERDS2TJ103	CARBON 1/4W 10K	1	
R7577		ERDS2TJ103	CARBON 1/4W 10K	1	
R7578		ERDS2TJ103	CARBON 1/4W 10K	1	
R7579		ERDS2TJ103	CARBON 1/4W 10K	1	
R7580		ERDS2TJ123	CARBON 1/4W 12K	1	NV-D80B
R7581		ERDS2TJ562	CARBON 1/4W 5.6K	1	NV-D80B
R7582		ERDS2TJ682	CARBON 1/4W 6.8K	1	NV-D80B
R7583		ERDS2TJ473	CARBON 1/4W 47K	1	NV-D80B
R7584		ERDS2TJ333	CARBON 1/4W 33K	1	NV-D80B
R7585		ERDS2TJ473	CARBON 1/4W 47K	1	NV-D80B
R7586		ERDS2TJ563	CARBON 1/4W 56K	1	NV-D80B
R7589		ERDS2TJ332	CARBON 1/4W 3.3K	1	NV-D80B
R7590		ERDS2TJ332	CARBON 1/4W 3.3K	1	NV-D80B
R7591		ERDS2TJ332	CARBON 1/4W 3.3K	1	NV-D80B
R7592		ERDS2TJ332	CARBON 1/4W 3.3K	1	NV-D80B
R7595		ERDS2TJ181	CARBON 1/4W 180	1	
R7599		ERDS2TJ103	CARBON 1/4W 10K	1	
				1	
			SWITCHS		
S3901		VSS0162	SWITCH	1	
S3903		VSS0196	SWITCH	1	NV-D80EG
			TRANSFORMERS		
T851		ELM7Q207A	TRANSFORMER	1	NV-D80EG
T4001		EIQ7QF013Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR301		EVND3AA00B24	VARIABLE RESISTOR 20K	1	
VR302		EVN3ACA00B14	VARIABLE 10K	1	
VR801		EVN3ACA00B52	VARIABLE 500	1	
VR802		EVN3ACA00B13	VARIABLE 1K	1	
VR803		EVND1AA00B14	VARIABLE RESISTOR 10K	1	
VR2001		EVND3AA00B54	VARIABLE 50K	1	
VR2002		EVND3AA00B15	VARIABLE 100K	1	
VR2006		EVND3AA00B15	VARIABLE 100K	1	
VR2010		EVL51MA00B25	VARIABLE 200K	1	
VR2011		EVND3AA00B15	VARIABLE 100K	1	
VR2013		EVND3AA00B23	VARIABLE RESISTOR 2K	1	
VR3012		EVND3AA00B22	VARIABLE 200	1	
VR3013		EVND3AA00B22	VARIABLE 200	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4001		EVND3AA00B14	VARIABLE 10K	1	
VR4002		EVND3AA00B25	VARIABLE 200K	1	
VR4004		EVND3AA00B53	VARIABLE RESISTOR 5K	1	
VR4005		EVND3AA00B53	VARIABLE RESISTOR 5K	1	
VR4510		EVN38CA00B15	VARIABLE 100K	1	
VR7502		EVND3AA00B14	VARIABLE 10K	1	
			CRYSTAL OSCILLATORS		
X201		VSX0066	CRYSTAL OSCILLATOR	1	
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X801		VSX0162A	CRYSTAL OSCILLATOR	1	
X3901		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		EF0FC3584A5	CRYSTAL OSCILLATOR	1	
X7504		EFBAA40D101	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMC0075	HEAT SINK FIX SPRING	1	
		VSC1689	HEAT SINK	1	
		VSC1068	HEAT SINK	1	
		VWJ15CN120AC	FLEXIBLE CABLE 15P	1	P7404-P7506
		VWJ0265	FLEXIBLE CABLE '5P	1	P1503-P6002
		VWJ28AW150MM	FLEXIBLE CABLE 28P	1	P4003-P4601
		VJF0045	WIRE SADLE	1	
		VMP0848	EARTH ANGLE	1	
		VMZ0960	HEAT SINK BARRIER	1	
		VJF0215	BINDER	1	
		VJF0236	SERVO C.B. SUPPORT		
		VEJ0571	REAR JACK		NV-D80EV
		VEJ0570	REAR JACK	1	NV-D80B
		VEJ0569	REAR JACK	1	NV-D80EG
		VGU2707	COLOUR/TEST KNOB	1	
	■	VEP03413A	DIGITAL C.B.A.		
			CONNECTORS		
BP9001		VJP1257	CONNECTOR	1	
BP9002		VJP1808	CONNECTOR	1	
BP9004		VJP1806	CONNECTOR	1	
BP9005		VJP1258	CONNECTOR (MALE)	1	
BP9006		VJP1802	CONNECTOR	1	
BP9007		VJP1804	CONNECTOR	1	
BP9008		VJP1253	CONNECTOR	1	
			CAPACITORS		
C9002		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C9003		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9004		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C9005		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9006		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C9007		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9008		ECKF1H102KB	CERAMIC 50V 1000P	1	
C9009		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9010		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C9011		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C9012		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9013		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9014		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C9015		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C9017		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9018		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C9019		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C9020		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C9021		ECKF1H103ZF	CERAMIC 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C9022		ECQB1H102JH	MYLAR 50V 1000P	1	
C9023		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C9024		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C9025		ECCF1H090DC	CERAMIC 50V 9P	1	
C9026		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C9027		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C9028		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C9029		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C9033		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9034		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9035		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9036		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9037		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
			DIODES		
D9001		MA165	DIODE	1	
D9002		MA165	DIODE	1	
D9003		MA165	DIODE	1	
D9004		MA165	DIODE	1	
			FILTERS		
FL9001		VLF0526	FILTER	1	
FL9002		VLF0523	FILTER	1	
FL9003		VLF0526	FILTER	1	
FL9004		VLF0523	FILTER	1	
FL9005		VLF0568	FILTER	1	OR ELXTS101GA
FL9006		VLF0568	FILTER	1	OR ELXTS101GA
FL9007		VLF0568	FILTER	1	OR ELXTS101GA
FL9008		VLF0568	FILTER	1	OR ELXTS101GA
FL9009		VLF0568	FILTER	1	OR ELXTS101GA
FL9010		VLF0568	FILTER	1	OR ELXTS101GA
FL9011		VLF0568	FILTER	1	OR ELXTS101GA
FL9012		VLF0568	FILTER	1	OR ELXTS101GA
FL9013		VLF0568	FILTER	1	OR ELXTS101GA
FL9014		VLF0568	FILTER	1	OR ELXTS101GA
FL9015		VLF0568	FILTER	1	OR ELXTS101GA
FL9016		VLF0568	FILTER	1	OR ELXTS101GA
FL9017		VLF0568	FILTER	1	OR ELXTS101GA
FL9018		VLF0568	FILTER	1	OR ELXTS101GA
FL9019		VLF0568	FILTER	1	OR ELXTS101GA
FL9020		VLF0568	FILTER	1	OR ELXTS101GA
FL9021		VLF0568	FILTER	1	OR ELXTS101GA
FL9022		VLF0568	FILTER	1	OR ELXTS101GA
FL9023		VLF0568	FILTER	1	OR ELXTS101GA
FL9024		VLF0568	FILTER	1	OR ELXTS101GA
FL9027		VLF0523	FILTER	1	
FL9028		VLF0568	FILTER	1	OR ELXTS101GA
FL9029		VLF0568	FILTER	1	OR ELXTS101GA
FL9030		VLF0568	FILTER	1	OR ELXTS101GA
FL9031		VLF0568	FILTER	1	OR ELXTS101GA
FL9032		VLF0568	FILTER	1	OR ELXTS101GA
FL9033		VLF0568	FILTER	1	OR ELXTS101GA
FL9034		VLP0054	FILTER	1	
FL9035		VLF0568	FILTER	1	OR ELXTS101GA
FL9036		VLF0568	FILTER	1	OR ELXTS101GA
			ICS		
IC9001		UPD74HC04C	IC	1	
IC9002		UPD6950C	IC	1	
IC9003		UPD6900C	IC	1	
IC9004		TA7374P	IC	1	
IC9005		MN1280	IC	1	
IC9006		BA3735S	IC	1	
IC9007		MN4700	IC	1	
IC9008		MN4700	IC	1	
IC9009		UPD65031F175	IC	1	
			COIL		
L9001		VLQEL05F101K	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTORS		
P3004		VJS1229R	CONNECTOR	1	
P3302		VJS1737T	CONNECTOR	1	
P3303		VJS1231R	CONNECTOR (FEMALE)	1	
P3304		VJS1741T	CONNECTOR	1	
P3306		VJS1735T	CONNECTOR	1	
P6006		VJS1739T	CONNECTOR	1	
P6007		VJS1234T	CONNECTOR (FEMALE)	1	
P6506		VJS1229T	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q9002		2SC2206	TRANSISTOR	1	
Q9003		2SB641	TRANSISTOR	1	
Q9004		2SD636	TRANSISTOR	1	
Q9005		2SD636	TRANSISTOR	1	
Q9006		2SD636	TRANSISTOR	1	
Q9007		2SD636	TRANSISTOR	1	
Q9008		2SD636	TRANSISTOR	1	
			COMBINATION PARTS		
QR9001		UN1113	TRANSISTOR-RESISTOR	1	
QR9002		UN1213	TRANSISTOR-RESISTOR	1	
QR9003		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R9003		ERDS2TJ104	CARBON 1/4W 100K	1	
R9004		ERDS2TJ154	CARBON 1/4W 150K	1	
R9005		ERDS2TJ103	CARBON 1/4W 10K	1	
R9006		ERDS2TJ334	CARBON 1/4W 330K	1	
R9007		ERDS2TJ334	CARBON 1/4W 330K	1	
R9008		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R9009		ERDS2TJ102	CARBON 1/4W 1K	1	
R9010		ERDS2TJ102	CARBON 1/4W 1K	1	
R9011		ERDS2TJ102	CARBON 1/4W 1K	1	
R9012		ERDS2TJ103	CARBON 1/4W 10K	1	
R9013		ERDS2TJ103	CARBON 1/4W 10K	1	
R9014		ERDS2TJ821	CARBON 1/4W 820	1	
R9015		ERDS2TJ333	CARBON 1/4W 33K	1	
R9016		ERDS2TJ681	CARBON 1/4W 680	1	
R9017		ERDS2TJ123	CARBON 1/4W 12K	1	
R9018		ERDS2TJ103	CARBON 1/4W 10K	1	
R9019		ERDS2TJ473	CARBON 1/4W 47K	1	
R9020		ERDS2TJ105	CARBON 1/4W 1000K	1	
R9021		ERDS2TJ221	CARBON 1/4W 220	1	
R9022		ERDS2TJ221	CARBON 1/4W 220	1	
R9023		ERDS2TJ821	CARBON 1/4W 820	1	
R9024		ERDS2TJ473	CARBON 1/4W 47K	1	
R9025		ERDS2TJ223	CARBON 1/4W 22K	1	
R9026		ERDS2TJ561	CARBON 1/4W 560	1	
R9027		ERDS2TJ331	CARBON 1/4W 330	1	
R9028		ERDS2TJ102	CARBON 1/4W 1K	1	
R9029		EROS2CKG3600	METAL OXIDE 1/4W 360	1	
R9030		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R9034		ERDS2TJ223	CARBON 1/4W 22K	1	
R9035		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R9037		ERDS2TJ273	CARBON 1/4W 27K	1	
R9038		ERDS2TJ223	CARBON 1/4W 22K	1	
R9039		ERDS2TJ223	CARBON 1/4W 22K	1	
R9040		ERDS2TJ103	CARBON 1/4W 10K	1	
R9041		ERDS2TJ333	CARBON 1/4W 33K	1	
R9042		ERDS2TJ103	CARBON 1/4W 10K	1	
RX9001		*EXBP88103K*	*RESISTOR&RESISTOR* 10K	1	
			CRYSTAL OSCILLATOR		
X9001		VSX0176	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC1894	SHIELD CASE (TOP)	1	
		VSC1896	SHIELD CASE (BOTTOM)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VSC1895	SHIELD CASE (MAIN)	1	
		VSC1966	SHIELD CASE ANGLE	1	
		VSC1967	SHIELD CASE ANGLE	1	
	■	VEP03414A	SUB DIGITAL C.B.A.		
			CONNECTORS		
BP3301		VJP1260	CONNECTOR (MALE)	1	
BP3305		VJP1255	CONNECTOR	1	
BP3307		VJP1803	CONNECTOR	1	
BP3308		VJP1802	CONNECTOR	1	
			CAPACITORS		
C3301		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3302		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3303		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3304		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C3305		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3306		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3307		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3308		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3309		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3310		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C3311		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3312		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C3313		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C3314		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3315		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3316		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3317		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3318		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3319		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C3320		ECQB1H183JH	MYLAR 50V 0.018U	1	
C3321		ECQB1H273JH	MYLAR 50V 0.027U	1	
C3322		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3323		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C3324		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3325		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3326		ECEA1AK330	ELECTROLYTIC 10V 33U	1	
C3327		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C3328		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C3329		ECEA1AK330	ELECTROLYTIC 10V 33U	1	
C3330		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3331		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C3332		ECEA1AK330	ELECTROLYTIC 10V 33U	1	
C3333		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C3334		ECEA1AU471	ELECTROLYTIC 10V 470U	1	
C3335		ECEA1AU471	ELECTROLYTIC 10V 470U	1	
C3336		ECEA1CU221	ELECTROLYTIC 16V 220U	1	
C3337		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3338		ECEA1CU221	ELECTROLYTIC 16V 220U	1	
C3339		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3340		ECEA1CU221	ELECTROLYTIC 16V 220U	1	
C3341		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C3342		ECQB1H332JH	MYLAR 50V 3300P	1	
C3343		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3344		ECQP1H222JZ	MYLAR 50V 2200P	1	
C3345		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3346		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3347		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C3348		ECKF1H331KB	CERAMIC 50V 330P	1	
C3349		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3350		ECQB1H273JH	MYLAR 50V 0.027U	1	
C3351		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3352		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3353		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3354		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C3355		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3356		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3357		ECEA1AK330	ELECTROLYTIC 10V 33U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3358		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C3359		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3360		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3361		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3362		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3363		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3364		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C3365		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C3366		ECKF1H102KB	CERAMIC 50V 1000P	1	
C3367		ECKF1H102KB	CERAMIC 50V 1000P	1	
C3368		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C3369		ECQB1H123JH	MYLAR 50V 0.012U	1	
C3370		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C3371		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3372		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C3373		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3374		ECCF1H030CC	CERAMIC 50V 3P	1	
C3375		ECCF1H030CC	CERAMIC 50V 3P	1	
C3376		ECCF1H030CC	CERAMIC 50V 3P	1	
C3377		ECEA10Z33	ELECTROLYTIC 10V 33P	1	
C3378		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C3379		ECKF1H102KB	CERAMIC 50V 1000P	1	
C3380		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C3381		ECQB1H103JH	MYLAR 50V 0.01U	1	
C3382		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C3383		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C3384		ECCF1H180JC	CERAMIC 50V 18P	1	
C3385		ECQV1H104JZ	MYLAR 50V 0.1U	1	
			DIODES		
D3301		MA165	DIODE	1	
D3302		MA165	DIODE	1	
D3305		MA4039H	DIODE	1	
D3306		MA4039H	DIODE	1	
D3307		MA165	DIODE	1	
D3309		MA165	DIODE	1	
D3310		MA165	DIODE	1	
D3311		MA165	DIODE	1	
D3312		MA165	DIODE	1	
D3313		MA165	DIODE	1	
			DELAY LINE		
DL3301		VLD0116	DELAY LINE	1	
			FILTERS		
FL3301		VLF0546	FILTER	1	
FL3302		VLF0545	FILTER	1	
FL3303		VLF0544	FILTER	1	
FL3304		VLF0545	FILTER	1	
FL3305		VLF0523	FILTER	1	
			ICS		
IC3301		TA7348P	IC	1	
IC3302		TA7348P	IC	1	
IC3303		UPD74HC123AC	IC	1	
IC3304		BA7023L	IC	1	
IC3305		AN3594K	IC	1	
IC3306		TA7348P	IC	1	
IC3307		TA7348P	IC	1	
IC3308		UPD4001BC	IC	1	
			COILS		
L3301		VLQEL05F101K	COIL 100UH	1	
L3302		VLQEL05F101K	COIL 100UH	1	
L3303		VLQEL05F101K	COIL 100UH	1	
L3304		VLQEL05F8R2K	COIL 8.2UH	1	
L3305		VLQEL05F8R2K	COIL 8.2UH	1	
L3306		VLQEL05F101K	COIL 100UH	1	
L3307		VLQEL05F101K	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3308		VLQEL05F101K	COIL 100UH	1	
L3309		VLQEL05F101K	COIL 100UH	1	
L3310		VLQEL05F101K	COIL 100UH	1	
L3311		VLQEL05F101K	COIL 100UH	1	
			CONNECTORS		
P1101		VJS1231R	CONNECTOR (FEMALE)	1	
P3003		VJS1236R	CONNECTOR	1	
P3302		VJP1231T	CONNECTOR(MALE) 4P	1	
P3303		VJP1231T	CONNECTOR(MALE) 4P	1	
P3304		VJP1235T	CONNECTOR(MALE) 8P	1	
P3306		VJP1229T	CONNECTOR(MALE) 2P	1	
P6008		VJS1736T	CONNECTOR	1	
P7508		VJS1735T	CONNECTOR	1	
			TRANSISTORS		
Q3301		2SB641	TRANSISTOR	1	
Q3302		2SD636	TRANSISTOR	1	
Q3303		2SD636	TRANSISTOR	1	
Q3305		2SD636	TRANSISTOR	1	
Q3307		2SD636	TRANSISTOR	1	
Q3308		2SB641	TRANSISTOR	1	
Q3309		2SD636	TRANSISTOR	1	
Q3310		2SC2206	TRANSISTOR	1	
Q3311		2SD636	TRANSISTOR	1	
Q3312		2SB641	TRANSISTOR	1	
Q3313		2SD636	TRANSISTOR	1	
Q3314		2SB641	TRANSISTOR	1	
Q3315		2SD636	TRANSISTOR	1	
Q3316		2SD636	TRANSISTOR	1	
Q3317		2SB641	TRANSISTOR	1	
Q3318		2SD636	TRANSISTOR	1	
Q3319		2SB641	TRANSISTOR	1	
Q3320		2SD636	TRANSISTOR	1	
Q3321		2SD636	TRANSISTOR	1	
Q3322		2SB641	TRANSISTOR	1	
Q3323		2SD1273	TRANSISTOR	1	
Q3324		2SD636	TRANSISTOR	1	
Q3325		2SD1273	TRANSISTOR	1	
Q3326		2SD636	TRANSISTOR	1	
Q3327		2SD636	TRANSISTOR	1	
Q3328		2SB641	TRANSISTOR	1	
Q3329		2SD636	TRANSISTOR	1	
Q3330		2SD636	TRANSISTOR	1	
Q3331		2SD636	TRANSISTOR	1	
Q3332		2SB641	TRANSISTOR	1	
			COMBINATION PARTS		
QR3301		UN1213	TRANSISTOR-RESISTOR	1	
QR3302		UN1213	TRANSISTOR-RESISTOR	1	
QR3303		UN1213	TRANSISTOR-RESISTOR	1	
QR3304		UN1213	TRANSISTOR-RESISTOR	1	
QR3305		UN1213	TRANSISTOR-RESISTOR	1	
QR3306		UN1213	TRANSISTOR-RESISTOR	1	
QR3307		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R3301		ERDS2TJ102	CARBON 1/4W 1K	1	
R3302		ERDS2TJ102	CARBON 1/4W 1K	1	
R3303		ERDS2TJ393	CARBON 1/4W 39K	1	
R3304		ERDS2TJ823	CARBON 1/4W 82K	1	
R3305		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3306		ERDS2TJ392	CARBON 1/4W 3.9K	1	
R3307		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3309		ERDS2TJ153	CARBON 1/4W 15K	1	
R3310		ERDS2TJ102	CARBON 1/4W 1K	1	
R3312		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R3313		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R3314		ERDS2TJ393	CARBON 1/4W 39K	1	
R3315		ERDS2TJ823	CARBON 1/4W 82K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3316		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3317		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3318		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3319		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R3321		ERDS2TJ102	CARBON 1/4W 1K	1	
R3322		ERDS2TJ183	CARBON 1/4W 18K	1	
R3323		ERDS2TJ153	CARBON 1/4W 15K	1	
R3324		ERDS2TJ391	CARBON 1/4W 390	1	
R3325		ERDS2TJ391	CARBON 1/4W 390	1	
R3326		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R3327		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R3328		ERDS2TJ473	CARBON 1/4W 47K	1	
R3329		ERDS2TJ151	CARBON 1/4W 150	1	
R3330		ERDS2TJ101	CARBON 1/4W 100	1	
R3331		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R3332		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R3333		ERDS2TJ473	CARBON 1/4W 47K	1	
R3334		ERDS2TJ473	CARBON 1/4W 47K	1	
R3335		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3336		ERDS2TJ104	CARBON 1/4W 100K	1	
R3337		ERDS2TJ333	CARBON 1/4W 33K	1	
R3338		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3339		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3340		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R3341		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R3342		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3343		EROS2CKG1301	METAL OXIDE 1/4W 1.3K	1	
R3344		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3345		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R3346		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3347		EROS2CKG1101	METAL OXIDE 1/4W 1.1K	1	
R3348		ERDS2TJ104	CARBON 1/4W 100K	1	
R3349		ERDS2TJ333	CARBON 1/4W 33K	1	
R3350		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3351		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3352		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R3353		ERDS2TJ393	CARBON 1/4W 39K	1	
R3354		ERDS2TJ823	CARBON 1/4W 82K	1	
R3355		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R3356		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3357		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R3358		ERDS2TJ101	CARBON 1/4W 100	1	
R3359		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R3360		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R3361		ERDS2TJ103	CARBON 1/4W 10K	1	
R3362		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R3364		ERDS2TJ163T	CARBON 1/4W 16K	1	
R3365		ERDS2TJ753	CARBON 1/4W 75K	1	
R3367		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R3368		ERDS2TJ184	CARBON 1/4W 180K	1	
R3369		ERDS2TJ104	CARBON 1/4W 100K	1	
R3370		ERDS2TJ223	CARBON 1/4W 22K	1	
R3371		ERDS2TJ334	CARBON 1/4W 330K	1	
R3372		ERDS2TJ102	CARBON 1/4W 1K	1	
R3373		ERDS2TJ102	CARBON 1/4W 1K	1	
R3374		ERDS2TJ223	CARBON 1/4W 22K	1	
R3375		ERDS2TJ102	CARBON 1/4W 1K	1	
R3376		ERDS2TJ102	CARBON 1/4W 1K	1	
R3377		ERDS2TJ102	CARBON 1/4W 1K	1	
R3378		ERDS2TJ223	CARBON 1/4W 22K	1	
R3379		ERDS2TJ102	CARBON 1/4W 1K	1	
R3380		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R3381		ERDS2TJ102	CARBON 1/4W 1K	1	
R3382		ERDS2TJ102	CARBON 1/4W 1K	1	
R3383		ERDS2TJ271	CARBON 1/4W 270	1	
R3384		ERDS2TJ104	CARBON 1/4W 100K	1	
R3385		ERDS2TJ104	CARBON 1/4W 100K	1	
R3387		ERDS2TJ102	CARBON 1/4W 1K	1	
R3388		ERDS2TJ102	CARBON 1/4W 1K	1	
R3389		ERDS2TJ223	CARBON 1/4W 22K	1	
R3390		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R3391		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R3392		ERDS2TJ103	CARBON 1/4W 10K	1	
R3393		ERDS2TJ102	CARBON 1/4W 1K	1	
R3394		ERDS2TJ102	CARBON 1/4W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3395		ERDS2TJ103	CARBON 1/4W 10K	1	
R3396		ERDS2TJ473	CARBON 1/4W 47K	1	
R3397		ERDS2TJ473	CARBON 1/4W 47K	1	
R3398		ERDS2TJ224	CARBON 1/4W 220K	1	
R3399		ERDS2TJ101	CARBON 1/4W 100	1	
R3400		ERDS2TJ101	CARBON 1/4W 100	1	
R3401		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R3402		ERDS2TJ101	CARBON 1/4W 100	1	
R3403		ERDS2TJ103	CARBON 1/4W 10K	1	
R3404		ERDS2TJ561	CARBON 1/4W 560	1	
R3405		ERDS2TJ104	CARBON 1/4W 100K	1	
R3406		ERDS2TJ154	CARBON 1/4W 150K	1	
R3407		ERDS2TJ223	CARBON 1/4W 22K	1	
R3408		ERDS2TJ473	CARBON 1/4W 47K	1	
R3409		ERDS2TJ473	CARBON 1/4W 47K	1	
R3410		ERDS2TJ103	CARBON 1/4W 10K	1	
R3411		ERDS2TJ103	CARBON 1/4W 10K	1	
R3412		ERDS2TJ103	CARBON 1/4W 10K	1	
R3413		ERDS2TJ153	CARBON 1/4W 15K	1	
R3414		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R3415		ERDS2TJ102	CARBON 1/4W 1K	1	
R3416		ERDS2TJ2R2	CARBON 1/4W 2.2	1	
R3417		ERDS2TJ2R2	CARBON 1/4W 2.2	1	
R3418		ERDS2TJ102	CARBON 1/4W 1K	1	
R3419		ERDS2TJ105	CARBON 1/4W 1000K	1	
R3420		ERDS2TJ103	CARBON 1/4W 10K	1	
R3421		ERDS2TJ184	CARBON 1/4W 180K	1	
R3422		ERDS2TJ563	CARBON 1/4W 56K	1	
VR3309		EVN38CA00B13	VARIABLE 1K	1	
VR3312		EVN38CA00B54	VARIABLE 50K	1	
	■	VEP04179C	FM AUDIO C.B.A.		
			CAPACITORS		
C4501		VCEA1AAC470J	ELECTROLYTIC 10V 47P	1	
C4502		ECQB1H821JH	MYLAR 50V 820P	1	
C4505		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4506		VCEA1AAC470J	ELECTROLYTIC 10V 47P	1	
C4507		VCEA1EAC4R7J	ELECTROLYTIC 25V 4.7P	1	
C4508		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4509		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C4510		ECQB1H272JH	MYLAR 50V 2700P	1	
C4511		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4512		ECQB1H103JH	MYLAR 50V 0.01U	1	
C4513		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4514		ECEA25Z4R7	ELECTROLYTIC 25V 4.7U	1	
C4515		ECQB1H223JH	MYLAR 50V 0.022U	1	
C4516		ECEA16Z10	ELECTROLYTIC 16V 10U	1	
C4517		ECQV1H473JZ	MYLAR 50V 0.047U	1	
C4518		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C4519		VCEA1EAC4R7J	ELECTROLYTIC 25V 4.7P	1	
C4520		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C4521		VCEA1EAC4R7J	ELECTROLYTIC 25V 4.7P	1	
C4522		ECEA0JK101	ELECTROLYTIC 6.3V 100U	1	
C4523		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4524		VCEA1AAC470J	ELECTROLYTIC 10V 47P	1	
C4525		ECQB1H272JH	MYLAR 50V 2700P	1	
C4526		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4527		ECQB1H821JH	MYLAR 50V 820P	1	
C4530		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4531		ECQB1H103JH	MYLAR 50V 0.01U	1	
C4532		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4533		ECEA25Z4R7	ELECTROLYTIC 25V 4.7U	1	
C4534		ECQB1H223JH	MYLAR 50V 0.022U	1	
C4535		ECCF1H100DC	CERAMIC 50V 10P	1	
C4536		ECEA16Z10	ELECTROLYTIC 16V 10U	1	
C4537		ECQV1H473JZ	MYLAR 50V 0.047U	1	
C4538		ECEA1AK470	ELECTROLYTIC 10V 47U	1	
C4539		VCEA1EAC4R7J	ELECTROLYTIC 25V 4.7P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4540		VCEA1CAC470J	ELECTROLYTIC 16V 47P	1	
C4541		VCEA1HAC010J	ELECTROLYTIC 50V 3.3P	1	
C4542		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4543		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4544		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4545		ECKF1H331KB	CERAMIC 50V 330P	1	
C4546		ECQB1H102KH	MYLAR 50V 1000P	1	
C4547		VCEA1EAD3R3J	ELECTROLYTIC 25V 3.3P	1	
C4548		ECCF1H330JC	CERAMIC 50V 33P	1	
C4549		ECCF1H101JC	CERAMIC 50V 100P	1	
C4550		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4551		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4552		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4553		VCEA0JAC470J	ELECTROLYTIC 6.3V 47P	1	
C4554		VCEA1AAC330J	ELECTROLYTIC 10V 33P	1	
C4555		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4556		ECQB1H102KH	MYLAR 50V 1000P	1	
C4557		VCEA1EAD3R3J	ELECTROLYTIC 25V 3.3P	1	
C4558		ECKF1H331KB	CERAMIC 50V 330P	1	
C4559		VCEA1CAC100J	ELECTROLYTIC 16V 10P	1	
C4560		ECCF1H330KC	CERAMIC 50V 33P	1	
C4561		ECCF1H101JC	CERAMIC 50V 100P	1	
C4562		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4563		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4564		VCEA0JAC470J	ELECTROLYTIC 6.3V 47P	1	
C4565		ECCF1H100DC	CERAMIC 50V 10P	1	
C4566		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4567		VCEA0JAC470J	ELECTROLYTIC 6.3V 47P	1	
C4572		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4573		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4574		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4575		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4576		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4577		ECQV1H154JZ	MYLAR 50V 0.15U	1	
C4578		ECCF1H221JC	CERAMIC 50V 220P	1	
C4579		ECKF1H471KB	CERAMIC 50V 470P	1	
C4580		ECQB1H102KH	MYLAR 50V 1000P	1	
C4581		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4582		VCEA0JAC470J	ELECTROLYTIC 6.3V 47P	1	
C4583		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4584		ECEA1HK0R1	ELECTROLYTIC 50V 0.1U	1	
C4585		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4586		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C4587		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4589		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C4590		ECEA1EKN4R7	ELECTROLYTIC 25V 4.7U	1	
C4591		VCEA1EAC4R7J	ELECTROLYTIC 25V 4.7P	1	
C4592		ECEA1EKN4R7	ELECTROLYTIC 25V 4.7U	1	
C4593		VCEA1EAC4R7J	ELECTROLYTIC 25V 4.7P	1	
C4594		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4595		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C4596		VCEA1VAC3R3J	ELECTROLYTIC 35V 3.3P	1	
C4597		VCEA1VAC3R3J	ELECTROLYTIC 35V 3.3P	1	
C4598		ECEA1EK3R3	ELECTROLYTIC 25V 3.3U	1	
C4599		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4600		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C4601		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4602		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C4603		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C4604		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4605		ECEA1AK330	ELECTROLYTIC 10V 33U	1	
C4606		VCEA1AAC330J	ELECTROLYTIC 10V 33P	1	
C4607		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C4608		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C4651		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4652		VCYD1C473MR1	SEMICONDUCTOR 16V 0.047U	1	
C4653		VCYD1C473MR1	SEMICONDUCTOR 16V 0.047U	1	
C4654		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4655		ECEA16Z10	ELECTROLYTIC 16V 10U	1	
C4656		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4657		VCYD1C473MR1	SEMICONDUCTOR 16V 0.047U	1	
C4658		VCYD1C473MR1	SEMICONDUCTOR 16V 0.047U	1	
C4659		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C4660		ECKF1H391KB	CERAMIC 50V 390P	1	
C4661		ECKF1H391KB	CERAMIC 50V 390P	1	
C4662		ECEA16Z33	ELECTROLYTIC 16V 33U	1	
C4663		ECEA1EKN4R7	ELECTROLYTIC 25V 4.7U	1	
C4701		ECEA1HKR33	ELECTROLYTIC 50V 0.33U	1	
C4702		ECQB1H273JH	MYLAR 50V 0.027U	1	
C4703		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4704		ECEA1HKR33	ELECTROLYTIC 50V 0.33U	1	
C4705		ECQB1H273JH	MYLAR 50V 0.027U	1	
C4706		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C4707		ECQB1H333JH	MYLAR 50V 0.033U	1	
			DIODES		
D4501		MA165	DIODE	1	
D4502		MA154WK	DIODE	1	
D4503		MA165	DIODE	1	
D4504		MA154WA	DIODE	1	
D4505		MA154WA	DIODE	1	
D4506		MA165	DIODE	1	
D4508		MA165	DIODE	1	
D4509		MA165	DIODE	1	
D4511		MA156	DIODE	1	
D4512		MA165	DIODE	1	
D4651		MA165	DIODE	1	
			FILTERS		
FL4501		VLF0520	FILTER	1	
FL4503		VLF0520	FILTER	1	
FL4506		VLF0442	FILTER	1	
FL4651		VLF0443	FILTER	1	
FL4652		VLF0445	FILTER	1	
FL4653		VLF0441	FILTER	1	
			ICS		
IC4501		BA7721S	IC	1	
IC4502		BA7711S	IC	1	
IC4503		AN3920K	IC	1	
IC4504		BA7056LS	IC	1	
IC4651		TA7302P	IC	1	
IC4652		TA7302P	IC	1	
			COILS		
L4501		VLQEL05F101K	COIL 100UH	1	
L4504		VLQEL05F221K	COIL 220UH	1	
L4505		VLQEL05F101K	COIL 100UH	1	
L4506		VLQEL05F101K	COIL 100UH	1	
L4651		VLQEL05F101K	COIL 100UH	1	
			CONNECTORS		
P4501		VJS1446	CONNECTOR(FEMALE)	1	
P4502		VJP1231T	CONNECTOR(MALE) 4P	1	
P4503		VJP1231T	CONNECTOR(MALE) 4P	1	
P4504		VJP1141	CONNECTOR(MALE) 2P	1	
			PACK PIN		
PK4701		VJR0160	PACK PIN	1	
			TRANSISTORS		
Q4501		2SD638	TRANSISTOR	1	(Q,R,S)
Q4502		2SB641	TRANSISTOR	1	(Q,R,S)
Q4503		2SD636	TRANSISTOR	1	(Q,R,S)
Q4504		2SD1330	TRANSISTOR	1	(S,T)
Q4505		2SD1330	TRANSISTOR	1	(S,T)
Q4651		2SD636	TRANSISTOR	1	(Q,R,S)
Q4652		2SD636	TRANSISTOR	1	(Q,R,S)
Q4701		2SD636	TRANSISTOR	1	
Q4702		2SD636	TRANSISTOR	1	
			COMBINATION PARTS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR4501		UN1213	TRANSISTOR-RESISTOR	1	
QR4503		UN1213	TRANSISTOR-RESISTOR	1	
QR4507		UN1212	TRANSISTOR-RESISTOR	1	
QR4508		UN1211	TRANSISTOR-RESISTOR	1	
QR4509		UN1213	TRANSISTOR-RESISTOR	1	
QR4510		UN1112	TRANSISTOR-RESISTOR	1	
QR4511		UN1212	TRANSISTOR-RESISTOR	1	
QR4651		UN1112	TRANSISTOR-RESISTOR	1	
QR4652		UN1212	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R4501		EROS2CKG1801	METAL OXIDE 1/4W 1.8K	1	
R4502		EROS2CKG1801	METAL OXIDE 1/4W 1.8K	1	
R4503		ERDS2TJ103	CARBON 1/4W 10K	1	
R4504		EROS2CKG2201	METAL OXIDE 1/4W 2.2K	1	
R4505		ERDS2TJ225	CARBON 1/4W 2.2M	1	
R4506		ERDS2TJ333	CARBON 1/4W 33K	1	
R4507		EROS2CKG2001	METAL OXIDE 1/4W 2K	1	
R4508		EROS2CKG3601	METAL OXIDE 1/4W 3.6K	1	
R4509		EROS2CKG1002	METAL OXIDE 1/4W 10K	1	
R4510		EROS2CKG1101	METAL OXIDE 1/4W 1.1K	1	
R4511		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R4512		EROS2CKG3901	METAL OXIDE 1/4W 3.9K	1	
R4513		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R4514		EROS2CKG1201	METAL OXIDE 1/4W 1.2K	1	
R4515		ERDS2TJ103	CARBON 1/4W 10K	1	
R4516		EROS2CKG3302	METAL OXIDE 1/4W 33K	1	
R4517		ERDS2TJ223	CARBON 1/4W 22K	1	
R4518		ERDS2TJ101	CARBON 1/4W 100	1	
R4519		EROS2CKG2201	METAL OXIDE 1/4W 2.2K	1	
R4520		ERDS2TJ333	CARBON 1/4W 33K	1	
R4521		ERDS2TJ225	CARBON 1/4W 2.2M	1	
R4522		EROS2CKG1801	METAL OXIDE 1/4W 1.8K	1	
R4523		EROS2CKG1801	METAL OXIDE 1/4W 1.8K	1	
R4524		EROS2CKG2001	METAL OXIDE 1/4W 2K	1	
R4525		EROS2CKG3601	METAL OXIDE 1/4W 3.6K	1	
R4526		EROS2CKG1002	METAL OXIDE 1/4W 10K	1	
R4527		EROS2CKG1101	METAL OXIDE 1/4W 1.1K	1	
R4528		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R4529		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R4530		EROS2CKG3901	METAL OXIDE 1/4W 3.9K	1	
R4531		ERDS2TJ103	CARBON 1/4W 10K	1	
R4532		EROS2CKG1201	METAL OXIDE 1/4W 1.2K	1	
R4533		EROS2CKG3302	METAL OXIDE 1/4W 33K	1	
R4534		ERDS2TJ104	CARBON 1/4W 100K	1	
R4535		ERDS2TJ103	CARBON 1/4W 10K	1	
R4536		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4537		EROS2CKG2402	METAL OXIDE 1/4W 24K	1	
R4538		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R4539		EROS2CKG5601	METAL OXIDE 1/4W 5.6K	1	
R4540		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4541		EROS2CKG2402	METAL OXIDE 1/4W 24K	1	
R4542		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R4543		EROS2CKG7501	METAL OXIDE 1/4W 7.5K	1	
R4544		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R4545		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4555		ERDS2TJ103	CARBON 1/4W 10K	1	
R4556		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4558		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4559		ERDS2TJ102	CARBON 1/4W 1K	1	
R4561		ERDS2TJ391	CARBON 1/4W 390	1	
R4562		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R4563		ERDS2TJ273	CARBON 1/4W 27K	1	
R4564		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4565		ERDS2TJ473	CARBON 1/4W 47K	1	
R4566		ERDS2TJ102	CARBON 1/4W 1K	1	
R4569		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4570		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4572		ERDS2TJ124	CARBON 1/4W 120K	1	
R4573		ERDS2TJ101	CARBON 1/4W 100	1	
R4574		ERDS2TJ124	CARBON 1/4W 120K	1	
R4575		ERDS2TJ101	CARBON 1/4W 100	1	
R4576		ERDS2TJ680	CARBON 1/4W 68	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4577		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R4578		ERDS2TJ103	CARBON 1/4W 10K	1	
R4579		ERDS2TJ272	CARBON 1/4W 2.7K	1	
R4580		ERDS2TJ103	CARBON 1/4W 10K	1	
R4581		ERDS2TJ680	CARBON 1/4W 68	1	
R4582		ERDS2TJ680	CARBON 1/4W 68	1	
R4583		ERDS2TJ103	CARBON 1/4W 10K	1	
R4584		ERDS2TJ823	CARBON 1/4W 82K	1	
R4585		ERDS2TJ102	CARBON 1/4W 1K	1	
R4586		ERDS2TJ473	CARBON 1/4W 47K	1	
R4587		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4588		ERDS2TJ273	CARBON 1/4W 27K	1	
R4589		EROS2CKG4701	METAL OXIDE 1/4W 4.7K	1	
R4590		EROS2CKG4701	METAL OXIDE 1/4W 4.7K	1	
R4591		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4592		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R4593		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R4594		EROS2CKG8200	METAL OXIDE 1/4W 820	1	
R4595		EROS2CKG8200	METAL OXIDE 1/4W 820	1	
R4596		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R4597		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R4598		ERDS2TJ473	CARBON 1/4W 47K	1	
R4599		ERDS2TJ103	CARBON 1/4W 10K	1	
R4600		ERDS2TJ102	CARBON 1/4W 1K	1	
R4651		ERDS2TJ102	CARBON 1/4W 1K	1	
R4652		ERDS2TJ102	CARBON 1/4W 1K	1	
R4653		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4654		ERDS2TJ101	CARBON 1/4W 100	1	
R4655		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4656		ERDS2TJ391	CARBON 1/4W 390	1	
R4657		ERDS2TJ105	CARBON 1/4W 1000K	1	
R4658		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4659		ERDS2TJ105	CARBON 1/4W 1000K	1	
R4660		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R4664		ERDS2TJ123	CARBON 1/4W 12K	1	
R4665		ERDS2TJ124	CARBON 1/4W 120K	1	
R4667		ERDS2TJ123	CARBON 1/4W 12K	1	
R4668		ERDS2TJ124	CARBON 1/4W 120K	1	
R4669		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R4670		ERSB20J102		1	
R4671		ERSB20J102		1	
R4701		ERDS2TJ184	CARBON 1/4W 180K	1	
R4702		ERDS2TJ104	CARBON 1/4W 100K	1	
R4703		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4704		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4705		ERDS2TJ271	CARBON 1/4W 270	1	
R4706		ERDS2TJ184	CARBON 1/4W 180K	1	
R4707		ERDS2TJ104	CARBON 1/4W 100K	1	
R4708		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4709		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R4710		ERDS2TJ271	CARBON 1/4W 270	1	
R4711		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R4712		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R4713		ERDS2TJ333	CARBON 1/4W 33K	1	
R4714		ERDS2TJ221	CARBON 1/4W 220	1	
			VARIABLE RESISTORS		
VR4501		EVN38CA00B23	VARIABLE 2K	1	
VR4502		EVND3AA00B14	VARIABLE 10K	1	
VR4503		VRV0020	VARIABLE RESISTOR	1	
VR4504		EVND3AA00B14	VARIABLE 10K	1	
VR4505		VRV0024	VARIABLE RESISTOR	1	
VR4507		EVND3AA00B14	VARIABLE 10K	1	
VR4508		EVND3AA00B14	VARIABLE 10K	1	
VR4509		EVN38CA00B23	VARIABLE 2K	1	
	■	VEP05106C	HEAD AMP C.B.A.		
			CAPACITORS		
C501		ECUX1H103ZFN	CHIP 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C502		ECUX1H820JCN	CHIP 50V 82P	1	
C503		ECUX1H181KN	CHIP 50V 180P	1	
C504		ECUX1H330JCN	CHIP 50V 33P	1	
C505		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C506		ECUX1E473ZFN	CHIP 25V 0.047U	1	
C507		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C508		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C509		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C510		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C511		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C512		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C513		ECEA0JK220	ELECTROLYTIC 6.3V 22U	1	
C514		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1U	1	
C515		ECUX1H102KBN	CHIP 50V 1000P	1	
C516		ECUX1H150JCN	CHIP 50V 15P	1	
C517		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C518		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C519		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C520		ECUX1H150JCN	CHIP 50V 15P	1	
C521		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C522		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C523		ECUX1H150JCN	CHIP 50V 15P	1	
C524		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C525		ECUX1H102KBN	CHIP 50V 1000P	1	
C527		ECUX1H102KBN	CHIP 50V 1000P	1	
C528		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C529		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C530		ECUX1E473ZFN	CHIP 25V 0.047U	1	
C531		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C533		ECUX1H560JCN	CHIP 50V 56P	1	
C534		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C536		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1U	1	
C537		ECUX1H150JCN	CHIP 50V 15P	1	
C538		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C539		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C540		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C551		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C552		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C553		ECUX1E473ZFN	CHIP 25V 0.047U	1	
C554		ECUX1H391JN	CHIP 50V 390P	1	
C555		ECEA1HKR22	ELECTROLYTIC 50V 0.22U	1	
C556		ECUX1H151JCN	CHIP 50V 150P	1	
C557		ECUX1H151JCN	CHIP 50V 150P	1	
C558		ECEA1HKR22	ELECTROLYTIC 50V 0.22U	1	
C559		ECUX1H122KBN	CHIP 50V 1200P	1	
C560		ECUX1H122KBN	CHIP 50V 1200P	1	
C561		ECEA0JK330	ELECTROLYTIC 6.3V 33U	1	
C562		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C563		ECUX1H103ZFN	CHIP 50V 0.01U	1	
			ICS		
IC501		AN3224K	IC	1	
IC502		AN3311S	IC	1	
IC551		UPC1531HA	IC	1	
			COILS		
L501		VLQEL05F101K	COIL 100UH	1	
L502		VLQEL05F820K	COIL 82UH	1	
L503		VLQEL05F151K	COIL 150UH	1	
L505		VLQEL05F101K	COIL 100UH	1	
L507		VLQEL05F270K	COIL 27UH	1	
L551		VLQEL05F101K	COIL 100UH	1	
L552		VLQEL05F101K	COIL 100UH	1	
L580		VLQ0211K2R2	COIL	1	
L581		VLQ0211K2R2	COIL	1	
			CONNECTORS		
P002		VJS1927	CONNECTOR (FEMALE)	1	
P501		VJP1248T	CONNECTOR(MALE) 8P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P502		VJP1236T	CONNECTOR(MALE) 9P	1	
			TRANSISTORS		
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q551		2SB643	TRANSISTOR	1	
Q552		2SD1306	TRANSISTOR	1	
			COMBINATION PARTS		
QR551		2SD1777CI	TRANSISTOR	1	
QR552		2SD1777CI	TRANSISTOR	1	
			RESISTORS		
R501		ERJ6GMYJ561	CHIP 1/16W 560	1	
R502		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R503		ERJ6GMYJ222	CHIP 1/16W 22	1	
R504		ERJ6GMYJ331	CHIP 1/16W 330	1	
R505		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R506		ERJ6GMYJ471	CHIP 1/16W 470	1	
R508		ERJ6GMYJ100	CHIP 1/16W 10	1	
R509		ERJ6GMYJ100	CHIP 1/16W 10	1	
R510		ERJ6GMYJ561	CHIP 1/16W 560	1	
R511		ERJ6GMYJ821	CHIP 1/16W 820	1	
R512		ERJ6GMYJ821	CHIP 1/16W 820	1	
R515		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R516		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R517		ERJ6GMYJ391	CHIP 1/16W 390	1	
R519		ERJ6GMYJ100	CHIP 1/16W 10	1	
R520		ERJ6GMYJ100	CHIP 1/16W 10	1	
R522		ERJ6GMYJ561	CHIP 1/16W 560	1	
R523		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R524		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R525		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R551		ERJ6GMYJ101	CHIP 1/16W 100	1	
R552		ERJ6GMYJ101	CHIP 1/16W 100	1	
R553		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R554		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R555		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R556		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R557		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R558		ERJ6GMYJ181	CHIP 1/16W 180	1	
R559		ERJ6GMYJ181	CHIP 1/16W 180	1	
R560		ERJ6GMYJ220	CHIP 1/16W 22	1	
R561		ERJ6GMYJ271	CHIP 1/16W 270	1	
R562		ERJ6GMYJ100	CHIP 1/16W 10	1	
R563		ERJ6GMYJ100	CHIP 1/16W 10	1	
R564		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R565		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R566		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R580		ERJ6GMYJ471	CHIP 1/16W 470	1	
R581		ERJ6GMYJ471	CHIP 1/16W 470	1	
R582		ERJ6GMYJ471	CHIP 1/16W 470	1	
			VARIABLE RESISTORS		
VR501		EVND1AA00B23	VARIABLE 2K	1	
VR502		EVND1AA00B13	VARIABLE 1K	1	
			MISCELLANEOUS		
		VSC1832	SHIELD CASE (TOP)	1	
		VSC1833	SHIELD CASE (BOTTOM)	1	
		VSC1834	SHIELD CASE (MAIN)	1	
	■	VEP06404A	OPERATION C.B.A.		NV-D80EG
	■	VEP06404B			NV-D80EV/B

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C6501		ECQB1H223KH	MYLAR 50V 0.022U	1	NV-D80EG
C6502		ECQB1H223KH	MYLAR 50V 0.022U	1	NV-D80EG
			DIODES		
D6501		LN81RCPHL	LED	1	
D6502		LN38GCPPSVT	LED	1	
D6503		MA165	DIODE	1	
D6504		MA165	DIODE	1	
D6505		MA165	DIODE	1	
D6506		MA165	DIODE	1	
D6507		MA165	DIODE	1	NV-D80EG
			COILS		
L6501		VLQEL05F121K	COIL 120UH	1	NV-D80EG
L6502		VLQEL05F121K	COIL 120UH	1	NV-D80EG
			CONNECTORS		
P6501		VJP1250T	CONNECTOR(MALE) 10P	1	
P6502		VJP1929T	CONNECTOR	1	
P6503		VJP1244T	CONNECTOR(MALE) 4P	1	
P6504		VJP1231T	CONNECTOR(MALE) 4P	1	
P6505		VJP1235T	CONNECTOR(MALE) 8P	1	
P6506		VJP1242T	CONNECTOR(MALE) 2P	1	
			COMBINATION PARTS		
QR6501		UN1213	TRANSISTOR-RESISTOR	1	
QR6502		UN1113	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6501		ERDS2TJ331	CARBON 1/4W 330	1	
R6504		ERDS2TJ102	CARBON 1/4W 1K	1	
R6507		ERDS2TJ222	CARBON 1/4W 2.2K	1	NV-D80EG
R6508		ERDS2TJ223	CARBON 1/4W 22K	1	
R6509		ERDS2TJ562	CARBON 1/4W 5.6K	1	
			SWITCHS		
SW6501		EVQQS307K	SWITCH	1	
SW6502		EVQQS307K	SWITCH	1	
SW6503		EVQQS307K	SWITCH	1	
SW6504		ESD14314	SWITCH	1	
SW6506		ESD14314	SWITCH	1	
SW6507		ESD14316	SWITCH	1	
SW6508		ESD14314	SWITCH	1	
SW6510		ESD14316	SWITCH	1	
SW6511		ESD14316	SWITCH	1	
SW6512		ESD14314	SWITCH	1	
			VARIABLE RESISTORS		
VR6501		EVUFSAE04B15	VARIABLE 100K	1	
VR6502		EVUFSAE04B15	VARIABLE 100K	1	
VR6503		EVUJ16E04B24	VARIABLE RESISTOR 20K	1	
VR6504		EVJVGAE05C23	VARIABLE RESISTOR 2K	1	
			MISCELLANEOUS		
		KL04	LED SPACER	1	
		VGU2473	SW SELECT KNOB	1	
		VGU2707	EDIT KNOB	1	
		VMD0504	LED HOLDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP07381A	FREQUENCY SYNTHESIZER TUNER		NV-D80EG
	■	VEP07381B	& VPS C.B.A.		NV-D80EV
			CONNECTORS		
BP7701		VJP1257	CONNECTOR	1	
BP7703		VJP1257	CONNECTOR	1	
BP7704		VJP1258	CONNECTOR (MALE)	1	
BP7801		VJP1258	CONNECTOR (MALE)	1	
			CAPACITORS		
C7701		ECCF1H220JC	CERAMIC 50V 22P	1	
C7702		ECCF1H150JC	CERAMIC 50V 15P	1	
C7703		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7704		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7705		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7706		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7707		ECEA0JK220	ELECTROLYTIC 6.3V 22U	1	
C7708		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7709		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7710		ECEA1VK100	ELECTROLYTIC 35V 10P	1	
C7711		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7720		ECQV1H184JZ	MYLAR 50V 0.18U	1	
C7721		ECQV1H564JZ	MYLAR 50V 0.56U	1	
C7722		ECQB1H103JH	MYLAR 50V 0.01U	1	
C7723		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7801		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C7802		ECQB1H223JH	MYLAR 50V 0.022U	1	
C7803		ECQV1H683JZ	MYLAR 50V 0.068U	1	
C7804		ECEA1HKNR47	ELECTROLYTIC 50V 0.47U	1	
C7805		ECCF1H150JC	CERAMIC 50V 15P	1	
C7806		ECQB1H102JH	MYLAR 50V 1000P	1	
C7807		ECKF1H471KB	CERAMIC 50V 470P	1	
C7808		ECQB1H223JH	MYLAR 50V 0.022U	1	
C7809		ECKF1H271KB	CERAMIC 50V 270P	1	
C7810		ECCF1H101JC	CERAMIC 50V 100P	1	
C7811		ECCF1H180JC	CERAMIC 50V 18P	1	
C7812		ECCF1H820JC	CERAMIC 50V 82P	1	
C7814		ECKF1H102KB	CERAMIC 50V 1000P	1	
C7815		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1U	1	
C7816		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C7818		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C7819		ECCF1H101JC	CERAMIC 50V 100P	1	
C7820		ECCF1H101JC	CERAMIC 50V 100P	1	
C7821		ECQB1H272JH	MYLAR 50V 2700P	1	
C7851		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7852		ECEA1AK101	ELECTROLYTIC 10V 100U	1	
C7853		ECCF1H330JC	CERAMIC 50V 33P	1	
C7854		ECCF1H330JC	CERAMIC 50V 33P	1	
C7855		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7856		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
			DIODES		
D7701		MA165	DIODE	1	NV-D80EV
D7703		MA165	DIODE	1	
D7704		MA165	DIODE	1	
D7705		MA165	DIODE	1	
D7706		MA165	DIODE	1	
D7707		MA165	DIODE	1	
D7708		MA165	DIODE	1	
D7710		MA29WB	DIODE	1	
D7711		LN28WPVT	LED	1	
D7721		MA4300M	DIODE	1	(H)
D7851		MA165	DIODE	1	
			ICS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC7701		MN15221VJP	IC	1	
IC7801		SAA5235	IC	1	
IC7802		SAF1135P	IC	1	
IC7851		MN158412VYA	IC	1	
IC7852		MN1280	IC	1	
			COILS		
L7701		VLQEL05F102K	COIL 1000UH	1	
L7801		VLQ0193	COIL	1	
L7802		VLQEL05F101K	COIL 100UH	1	
L7803		VLQEL05F101K	COIL 100UH	1	
			CONNECTORS		
P704		VJS1233T	CONNECTOR (FEMALE)	1	
P7403		VJS1234T	CONNECTOR (FEMALE)	1	
P7405		VJS1234R	CONNECTOR	1	
P7507		VJS1233T	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q7701		2SD637	TRANSISTOR	1	(Q,R,S)
Q7702		2SD637	TRANSISTOR	1	(Q,R,S)
Q7703		2SD637	TRANSISTOR	1	(Q,R,S)
Q7704		2SD637	TRANSISTOR	1	(Q,R,S)
Q7705		2SD637	TRANSISTOR	1	(Q,R,S)
Q7706		2SB644	TRANSISTOR	1	(Q,R,S)
Q7707		2SB644	TRANSISTOR	1	(Q,R,S)
Q7801		2SD636	TRANSISTOR	1	
Q7802		2SB641	TRANSISTOR	1	
Q7803		2SB641	TRANSISTOR	1	
			COMBINATION PARTS		
QR7701		UN1213	TRANSISTOR-RESISTOR	1	
QR7851		UN1211	TRANSISTOR-RESISTOR	1	
QR7852		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R7701		ERDS2TJ824	CARBON 1/4W 820K	1	
R7702		ERDS2TJ104	CARBON 1/4W 100K	1	
R7703		ERDS2TJ102	CARBON 1/4W 1K	1	
R7704		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7705		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7709		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7710		ERDS2TJ390	CARBON 1/4W 39	1	
R7711		ERDS2TJ273	CARBON 1/4W 27K	1	
R7712		ERDS2TJ333	CARBON 1/4W 33K	1	
R7713		ERDS2TJ820	CARBON 1/4W 82	1	
R7714		ERDS2TJ473	CARBON 1/4W 47K	1	
R7720		ERDS2TJ682	CARBON 1/4W 6.8K	1	
R7721		ERDS2TJ330	CARBON 1/4W 33	1	
R7722		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R7723		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R7724		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R7725		ERDS2TJ103	CARBON 1/4W 10K	1	
R7726		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7730		ERDS2TJ102	CARBON 1/4W 1K	1	
R7731		ERDS2TJ823	CARBON 1/4W 82K	1	
R7732		ERDS2TJ124	CARBON 1/4W 120K	1	
R7733		ERDS2TJ473	CARBON 1/4W 47K	1	
R7803		ERDS2TJ103	CARBON 1/4W 10K	1	
R7804		ERDS2TJ103	CARBON 1/4W 10K	1	
R7809		ERDS2TJ683	CARBON 1/4W 68K	1	
R7810		ERDS2TJ223	CARBON 1/4W 22K	1	
R7811		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7812		ERDS2TJ152	CARBON 1/4W 1.5K	1	
R7813		ERDS2TJ102	CARBON 1/4W 1K	1	
R7814		ERDS2TJ102	CARBON 1/4W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7815		ERDS2TJ102	CARBON 1/4W 1K	1	
R7816		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R7817		ERDS2TJ103	CARBON 1/4W 10K	1	
R7818		ERDS2TJ221	CARBON 1/4W 220	1	
R7851		ERDS2TJ103	CARBON 1/4W 10K	1	
			CRYSTAL OSCILLATORS		
X7701		VSX0235	CRYSTAL OSCILLATOR	1	
X7801		VSX0173	CRYSTAL OSCILLATOR	1	
X7851		EFOA4ROM03C2	FILTER	1	
			MISCELLANEOUS		
		VMX0718	C.B.SPACER	2	
		VSC1455	SHIELD CASE (TOP)	1	
		VSC1456	SHIELD CASE (MAIN)	1	
		VSC1457	SHIELD CASE (BOTTOM)	1	
		VJF0215	BINDER	1	
	■	VEP07411A	TIMER C.B.A.		NV-D80EG/EV
	■	VEP07411C			NV-D80B
			CAPACITORS		
C6701		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C6702		ECKF1H102KB	CERAMIC 50V 1000P	1	
C6703		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C6704		ECEA1HK3R3	ELECTROLYTIC 50V 3.3U	1	
C7501		ECCF1H080DC	CERAMIC 50V 8P	1	
C7502		ECRHA030E41	TRIMER 30P	1	
C7503		ECEA1HKR22	ELECTROLYTIC 50V 0.22U	1	
C7504		ECCF1H220JC	CERAMIC 50V 22P	1	
C7505		ECCF1H330JC	CERAMIC 50V 33P	1	
C7507		ECQV1H473JZ	MYLAR 50V 0.047U	1	
C7510		ECEA1HK220	ELECTROLYTIC 50V 22U	1	
C7511		ECEA0JK221	ELECTROLYTIC 6.3V 220U	1	
C7512		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7514		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7515		ECEA0JK470	ELECTROLYTIC 6.3V 47U	1	
C7586		ECKF1H102ZF	CERAMIC 50V 1000P	1	
C7588		ECKF1H331KB	CERAMIC 50V 330P	1	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		11ES1	DIODE	1	
D7502		MA4075	DIODE	1	
D7503		MA165	DIODE	1	
D7516		MA165	DIODE	1	NV-D80B
D7517		LN81RCPHL	LED	1	
D7520		MA165	DIODE	1	
D7521		MA165	DIODE	1	NV-D80B
D7523		MA165	DIODE	1	NV-D80B
D7524		MA165	DIODE	1	NV-D80EG/EV
D7525		MA165	DIODE	1	NV-D80B
D7528		MA165	DIODE	1	NV-D80B
D7529		MA165	DIODE	1	
D7530		MA165	DIODE	1	NV-D80B
D7532		MA165	DIODE	1	
D7533		MA165	DIODE	1	NV-D80B
D7534		MA165	DIODE	1	
D7535		MA165	DIODE	1	
D7536		MA165	DIODE	1	
D7537		MA165	DIODE	1	
D7538		MA165	DIODE	1	
D7539		MA165	DIODE	1	
D7540		MA165	DIODE	1	
D7541		MA165	DIODE	1	
D7542		MA165	DIODE	1	NV-D80B
D7546		LN41YCPHL	LED	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7547		LN41YCPHL	LED	1	
D7561		MA165	DIODE	1	
			DISPLAY		
DP7501		VSL0101A	DISPLAY	1	
			ICS		
IC6701		UPC1490HA	IC	1	
IC7501		MN15283VJU	IC	1	NV-D80B
IC7501		MN15283VJN	IC	1	NV-D80EG/EV
IC7502		MN1220	IC	1	
IC7504		MN1280P	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJP1250T	CONNECTOR(MALE) 10P	1	
P7502		VJS1937	CONNECTOR (FEMALE)	1	
P7503		VJP1239T	CONNECTOR(MALE) 12P	1	
P7504		VJP1247T	CONNECTOR(MALE) 7P	1	
P7505		VJP1247T	CONNECTOR(MALE) 7P	1	NV-D80B
P7506		VJS1491	CONNECTOR(FEMALE)	1	
P7507		VJP1246T	CONNECTOR(MALE) 6P	1	NV-D80EG/EV
P7508		VJP1242T	CONNECTOR(MALE) 2P	1	
			TRANSISTORS		
Q7501		2SD637	TRANSISTOR	1	(Q,R,S)
Q7502		2SD636	TRANSISTOR	1	(Q,R,S)
			COMBINATION PARTS		
QR7502		UN1213	TRANSISTOR-RESISTOR	1	
QR7503		UN1112	TRANSISTOR-RESISTOR	1	
QR7505		UN1113	TRANSISTOR-RESISTOR	1	
QR7506		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6701		ERDS2TJ154	CARBON 1/4W 150K	1	
R6702		ERDS2TJ100	CARBON 1/4W 10	1	
R7501		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R7503		ERDS2TJ224	CARBON 1/4W 220K	1	
R7507		ERDS2TJ104	CARBON 1/4W 100K	1	
R7508		ERDS2TJ470	CARBON 1/4W 47	1	
R7509		ERDS2TJ102	CARBON 1/4W 1K	1	
R7510		ERDS2TJ223	CARBON 1/4W 22K	1	
R7511		ERDS2TJ473	CARBON 1/4W 47K	1	
R7512		ERDS2TJ473	CARBON 1/4W 47K	1	
R7515		ERDS2TJ332	CARBON 1/4W 3.3K	1	
R7527		ERDS2TJ103	CARBON 1/4W 10K	1	
R7528		ERDS2TJ103	CARBON 1/4W 10K	1	
R7530		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R7531		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R7532		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R7533		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R7534		ERDS2TJ182	CARBON 1/4W 1.8K	1	
R7535		ERDS2TJ102	CARBON 1/4W 1K	1	
R7536		ERDS2TJ103	CARBON 1/4W 10K	1	
R7537		ERDS2TJ473	CARBON 1/4W 47K	1	
R7542		ERDS2TJ473	CARBON 1/4W 47K	1	
R7550		ERDS1TJ8R2B	CARBON 1/2W 8.2	1	
R7561		ERDS2TJ103	CARBON 1/4W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			VARIABLE RESISTORS		
VR6701		EVMLGGA00B15	VARIABLE 100K	1	
VR7501		EWANYDX05J54	VARIABLE RESISTOR 50K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094A	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		KL04	LED SPACER	3	
		VJF0398	DISPLAY HOLDER	1	
		VJF0412	LEVEL METER HOLDER	1	
		VGQ1188	AUDIO REC VR SLIDE PLATE	1	
		VGQ1189	AUDIO REC VR LEVER	2	
		VGU3436	AUDIO REC VR KNOB	2	
	■	VEP07406D	TV DEMODULATOR INTERFACE		NV-D80EG
			C.B.A.		
			CONNECTORS		
BP7001		VJP1254	CONNECTOR	1	
BP7002		VJP1254	CONNECTOR	1	
			CAPACITORS		
C702		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C703		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C704		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C705		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C707		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C708		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C709		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C710		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C715		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C716		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C717		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C718		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C720		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C721		ECEA1HKR27	ELECTROLYTIC 50V 0.27U	1	
C722		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C723		ECUX1H120JCN	CHIP 50V 12P	1	
C727		ECUX1H080DCN	CHIP 50V 80P	1	
C728		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C730		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C731		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C733		ECUX1H680JCN	CHIP 50V 68P	1	
C734		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C739		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C740		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C741		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C742		ECUX1H030CCN	CHIP 50V 3P	1	
C743		ECUX1H270RSN	CHIP 50V 12P	1	
C744		ECEA1HKR47	ELECTROLYTIC 50V 0.47U	1	
C745		ECUX1H680JPN	CHIP 50V 68P	1	
C746		ECUX1H150UCN	CHIP 50V 15P	1	
C747		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C748		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C749		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C750		ECQB1H183JH	MYLAR 50V 0.018U	1	
C752		ECUX1H102KBN	CHIP 50V 1000P	1	
C753		ECQB1H103KH	MYLAR 50V 0.01U	1	
C754		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C755		ECUX1H390JPN	CHIP 50V 39P	1	
C756		ECUX1H120JCN	CHIP 50V 12P	1	
C758		ECQB1H103KH	MYLAR 50V 0.01U	1	
C759		ECEA1CK470	ELECTROLYTIC 16V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C760		ECUX1H390JPN	CHIP 50V 39P	1	
C761		ECUX1H120JCN	CHIP 50V 12P	1	
C762		ECQB1H393JH	MYLAR 50V 0.039U	1	
C763		ECUX1H102KBN	CHIP 50V 1000P	1	
C764		ECEA1EK4R7	ELECTROLYTIC 25V 4.7U	1	
C765		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C766		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C768		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C775		ECUX1H120JCN	CHIP 50V 12P	1	
C781		ECUX1H102KBN	CHIP 50V 1000P	1	
C782		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C783		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7302		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C7303		ECQB1H393JH	MYLAR 50V 0.039U	1	
C7304		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C7305		ECQV1H473JZ	MYLAR 50V 0.047U	1	
C7306		ECQB1H102KH	MYLAR 50V 1000P	1	
C7307		ECQB1H822KH	MYLAR 50V 8200P	1	
C7308		ECQB1H102KH	MYLAR 50V 1000P	1	
C7309		ECQB1H152JH	MYLAR 50V 1500P	1	
C7310		ECEA16Z10	ELECTROLYTIC 16V 10U	1	
C7311		ECEA50ZR47	ELECTROLYTIC 50V 0.47U	1	
C7312		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C7313		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7314		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C7315		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7316		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C7317		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C7318		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C7319		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C7320		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7321		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7323		ECQB1H822JH	MYLAR 50V 8200P	1	
C7324		ECQB1H822JH	MYLAR 50V 8200P	1	
C7331		ECQV1H474JZ	MYLAR 50V 0.47U	1	
C7651		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7652		ECEA1CKN330	ELECTROLYTIC 16V 33U	1	
C7653		ECQB1H392JH	MYLAR 50V 3900P	1	
C7654		ECQB1H103JH	MYLAR 50V 0.01U	1	
C7655		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7656		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7657		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7658		ECQP1562JZ	MYLAR 100V 5600P	1	
C7659		ECQB1H272JH	MYLAR 50V 2700P	1	
			DIODES		
D710		MA3100L	DIODE	1	
D712		MA151K	DIODE	1	
D7301		MA151A	DIODE	1	
D7302		MA151A	DIODE	1	
			ICS		
IC701		M51366SP	IC	1	
IC751		AN5215	IC	1	
IC752		AN5215	IC	1	
IC7301		TDA3803A	IC	1	
IC7651		AN5421	IC	1	
			COILS		
L701		VLQEL05F680K	COIL 68UH	1	
L702		VLQEL05F680K	COIL 68UH	1	
L703		VLQEL05F221K	COIL 220UH	1	
L704		VLQEL05F221K	COIL 220UH	1	
L712		ELQTR82XB	COIL	1	
L714		ELQT1R2KB	COIL	1	
L715		VLQEL05K680K	COIL 68UH	1	
L716		VLQEL05F560K	COIL 56UH	1	
L717		VLQEL05F680K	COIL 68UH	1	
L718		VLQEL05F680K	COIL 68UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L719		VLQEL05F120K	COIL 12UH	1	
L7301		VLQEL05F102K	COIL 1000UH	1	
L7304		VTQ0014	COIL	1	
			CONNECTORS		
P701		VJP1231T	CONNECTOR(MALE) 4P	1	
P702		VJP1238T	CONNECTOR(MALE) 11P	1	
P703		VJP1235T	CONNECTOR(MALE) 8P	1	
P704		VJP1233T	CONNECTOR(MALE) 6P	1	
			PACK PINS		
PK701		VJR0190	PACK PIN	1	
PK702		VJR0190	PACK PIN	1	
PK7301		VJR0231	PACK PIN	1	
PK7302		VJR0231	PACK PIN	1	
			TRANSISTORS		
Q703		2SD601	TRANSISTOR CHIP	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q711		2SC2404	TRANSISTOR CHIP	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q714		2SD601	TRANSISTOR CHIP	1	
Q715		2SD601	TRANSISTOR CHIP	1	
Q7301		2SD601	TRANSISTOR CHIP	1	(S,T)
Q7302		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q7303		2SD1328	TRANSISTOR CHIP	1	(S,T)
			COMBINATION PARTS		
QR701		UN2214	TRANSISTOR-RESISTOR	1	
QR702		UN2213	TRANSISTOR-RESISTOR	1	
QR711		UN2212	TRANSISTOR-RESISTOR	1	
QR712		UN2212	TRANSISTOR-RESISTOR	1	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR714		UN2214	TRANSISTOR-RESISTOR	1	
QR715		UN2214	TRANSISTOR-RESISTOR	1	
QR7312		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R707		ERDS2TJ103	CARBON 1/4W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/16W 680	1	
R714		ERD2FCG330	CARBON 2W 33	1	<!>
R715		ERJ6GEYJ271	CHIP 1/16W 270	1	
R716		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	
R717		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/16W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R721		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R722		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R723		ERJ6GEYJ183	CHIP 1/16W 180K	1	
R724		ERJ6GEYJ101	CHIP 1/16W 100	1	
R725		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R728		ERDS2TJ471	CARBON 1/4W 470	1	
R729		ERJ6GEYJ471	CHIP 1/16W 470	1	
R731		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R732		ERJ6GEYJ330	CHIP 1/16W 33	1	
R733		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R734		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R736		ERJ6GEYJ471	CHIP 1/16W 470	1	
R737		ERJ6GEYJ274	CHIP 1/16W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/16W 330K	1	
R739		ERJ6GEYJ471	CHIP 1/16W 470	1	
R740		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R741		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R742		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R743		ERJ6GEYJ470	CHIP 1/16W 47	1	
R744		ERJ6GEYJ821	CHIP 1/16W 820	1	
R745		ERJ6GEYJ331	CHIP 1/16W 330	1	
R746		ERDS2TJ181	CARBON 1/4W 180	1	
R750		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R756		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R758		ERJ6GEYJ681	CHIP 1/16W 680	1	
R760		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R761		ERJ6GEYJ221	CHIP 1/16W 220	1	
R762		ERJ6GEYJ471	CHIP 1/16W 470	1	
R763		ERJ6GEYJ471	CHIP 1/16W 470	1	
R764		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R765		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	
R774		ERJ6GEY0R00	CHIP 1/16W 0	1	
R792		ERJ6GEYJ120	CHIP 1/16W 12	1	
R7302		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R7303		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R7304		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R7305		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R7306		ERJ6GEYJ471	CHIP 1/16W 470	1	
R7307		ERJ6GEYJ104	CHIP 1/16W 100K	1	
R7308		ERJ6GEYJ273	CHIP 1/16W 27K	1	
R7309		ERDS2TJ102	CARBON 1/4W 1K	1	
R7310		ERJ6GEYJ474	CHIP 1/16W 470K	1	
R7311		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7312		ERJ6GEYJ563	CHIP 1/16W 56K	1	
R7313		ERJ6GEYJ824	CHIP 1/16W 820K	1	
R7314		ERJ6GEYJ224	CHIP 1/16W 220K	1	
R7315		ERJ6GEYJ224	CHIP 1/16W 220K	1	
R7316		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R7317		ERJ6GEYJ393	CHIP 1/16W 39K	1	
R7318		ERJ6GEYJ153	CHIP 1/16W 15K	1	
R7319		ERDS2TJ102	CARBON 1/4W 1K	1	
R7321		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7322		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7323		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R7324		ERJ6GEYJ821	CHIP 1/16W 820	1	
R7325		ERJ6GEYJ821	CHIP 1/16W 820	1	
R7327		ERDS2TJ751	CARBON 1/4W 750	1	
R7328		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R7329		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7330		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R7331		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R7651		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R7654		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7655		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R7656		ERJ6GEYJ151	CHIP 1/16W 150	1	
R7657		ERDS2TJ104	CARBON 1/4W 100K	1	
R7658		ERDS2TJ393	CARBON 1/4W 39K	1	
R7659		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R7661		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R7662		ERDS2TJ393	CARBON 1/4W 39K	1	
R7663		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R7664		ERDS2TJ332	CARBON 1/4W 3.3K	1	
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A	TRANSFORMER	1	
T710		EULBEF022	FILTER	1	
T752		EIS5EC005A	TRANSFORMER	1	
T753		EIS5EC007A	TRANSFORMER	1	
T7301		EIR7QG001B	IF TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVM3AGA00B23	VARIABLE 2K	1	
VR702		EVM3AGA00B23	VARIABLE 2K	1	
VR741		EVN3ACA00B14	VARIABLE 10K	1	
VR751		EVNE4AA00B53	VARIABLE 5K	1	
VR7301		EVN38CA00B14	VARIABLE 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR7326		EVN38CA00B52	VARIABLE 500	1	
VR7328		EVN3ACA00B52	VARIABLE 500	1	
VR7340		EVNE4AA00B14	VARIABLE 10K	1	
VR7344		EVNE4AA00B14	VARIABLE 10K	1	
VR7660		EVN38CA00B23	VARIABLE 2K	1	
			FILTERS		
X710		EFCH38MSP1	SAW FILTER	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5B	FILTER	1	
X713		EFCS5R5MS5B	FILTER	1	
X714		ELB5A016	FILTER	1	
X715		ELB5A043	FILTER	1	
X716		EFCA40R40M1	FILTER	1	
X717		ELB5A047	FILTER	1	
X751		EFCS5R74MS5B	FILTER	1	
X752		EFCS5R74MS5B	FILTER	1	
			MISCELLANEOUS		
		VSC1788	SHIELD CASE (TOP)	1	
		VSC1789	SHIELD CASE (MAIN)	1	
		VSC1888	SHIELD CASE (BOTTOM)	1	
		TNV57472G2	TUNER	1	<!>
		ENC87956	RF CONVERTER	1	<!>
	■	VEP07406B	TV DEMODULATOR INTERFACE		NV-D80EV
			C.B.A.		
			CONNECTORS		
BP7001		VJP1254	CONNECTOR	1	
BP7002		VJP1254	CONNECTOR	1	
			CAPACITORS		
C701		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C702		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C703		ECEA1HK2R2	ELECTROLYTIC 50V 2.2U	1	
C705		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C706		ECQV1H823JZ	MYLAR 50V 0.082U	1	
C707		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C708		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C709		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C710		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C715		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C716		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C717		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C718		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C720		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C721		ECEA1HKR27	ELECTROLYTIC 50V 0.27U	1	
C722		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C723		ECUX1H120JCN	CHIP 50V 12P	1	
C725		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C728		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C730		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C731		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C733		ECUX1H680JCN	CHIP 50V 68P	1	
C734		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C739		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C740		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C741		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C742		ECUX1H030CCN	CHIP 50V 3P	1	
C743		ECUX1H270RSN	CHIP 50V 12P	1	
C744		ECEA1HKR47	ELECTROLYTIC 50V 0.47U	1	
C745		ECUX1H680JPN	CHIP 50V 68P	1	
C746		ECUX1H150JCN	CHIP 50V 15P	1	
C747		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C748		ECEA1CK470	ELECTROLYTIC 16V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C749		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C750		ECQB1H183JH	MYLAR 50V 0.018U	1	
C752		ECUX1H102KBN	CHIP 50V 1000P	1	
C753		ECQB1H103KH	MYLAR 50V 0.01U	1	
C754		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C755		ECUX1H390JPN	CHIP 50V 39P	1	
C756		ECUX1H120JCN	CHIP 50V 12P	1	
C758		ECQB1H103KH	MYLAR 50V 0.01U	1	
C759		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C760		ECUX1H390JPN	CHIP 50V 39P	1	
C761		ECUX1H120JCN	CHIP 50V 12P	1	
C762		ECQB1H393JH	MYLAR 50V 0.039U	1	
C763		ECUX1H102KBN	CHIP 50V 1000P	1	
C765		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C766		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C768		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C7302		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C7303		ECQB1H393JH	MYLAR 50V 0.039U	1	
C7304		ECEA1CKN100	ELECTROLYTIC 16V 10U	1	
C7305		ECQV1H473JZ	MYLAR 50V 0.047U	1	
C7306		ECQB1H102KH	MYLAR 50V 1000P	1	
C7307		ECQB1H822KH	MYLAR 50V 8200P	1	
C7308		ECQB1H102KH	MYLAR 50V 1000P	1	
C7309		ECQB1H152JH	MYLAR 50V 1500P	1	
C7310		ECEA16Z10	ELECTROLYTIC 16V 10U	1	
C7311		ECEA50ZR47	ELECTROLYTIC 50V 0.47U	1	
C7312		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C7313		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7314		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C7315		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C7316		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C7317		ECEA1CK101	ELECTROLYTIC 16V 100U	1	
C7318		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C7319		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C7320		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7321		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7323		ECQB1H822JH	MYLAR 50V 8200P	1	
C7324		ECQB1H822JH	MYLAR 50V 8200P	1	
C7331		ECQV1H474JZ	MYLAR 50V 0.47U	1	
C7651		ECEA1CK470	ELECTROLYTIC 16V 47U	1	
C7652		ECEA1CKN330	ELECTROLYTIC 16V 33U	1	
C7653		ECQB1H392JH	MYLAR 50V 3900P	1	
C7654		ECQB1H103JH	MYLAR 50V 0.01U	1	
C7655		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7656		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7657		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C7658		ECQP1562JZ	MYLAR 100V 5600P	1	
C7659		ECQB1H272JH	MYLAR 50V 2700P	1	
			DIODES		
D710		MA3100L	DIODE	1	
D712		MA151K	DIODE	1	
D7301		MA151A	DIODE	1	
D7302		MA151A	DIODE	1	
			ICS		
IC701		M51366SP	IC	1	
IC751		AN5215	IC	1	
IC752		AN5215	IC	1	
IC7301		TDA3803A	IC	1	
IC7651		AN5421	IC	1	
			COILS		
L701		VLQEL05F680K	COIL 68UH	1	
L702		VLQEL05F680K	COIL 68UH	1	
L711		ELB5A047	COIL 68UH	1	
L712		ELQTR82XB	COIL	1	
L713		ELQTR68XB	COIL	1	
L714		ELQTR27XB	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L715		VLQEL05F680K	COIL 68UH	1	
L717		VLQEL05F680K	COIL 68UH	1	
L718		VLQEL05F680K	COIL 68UH	1	
L719		VLQEL05F120K	COIL 12UH	1	
L7301		VLQEL05F102K	COIL 1000UH	1	
L7304		VTQ0014	COIL	1	
			CONNECTORS		
P701		VJP1231T	CONNECTOR(MALE) 4P	1	
P702		VJP1238T	CONNECTOR(MALE) 11P	1	
P703		VJP1235T	CONNECTOR(MALE) 8P	1	
P704		VJP1233T	CONNECTOR(MALE) 6P	1	
			PACK PINS		
PK701		VJR0190	PACK PIN	1	
PK702		VJR0190	PACK PIN	1	
PK7301		VJR0231	PACK PIN	1	
PK7302		VJR0231	PACK PIN	1	
			TRANSISTORS		
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q711		2SC2404	TRANSISTOR CHIP	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	(S,T)
Q714		2SD601	TRANSISTOR CHIP	1	
Q715		2SD601	TRANSISTOR CHIP	1	
Q7301		2SD601	TRANSISTOR CHIP	1	(S,T)
Q7302		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q7303		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q7651		2SD601	TRANSISTOR	1	(S,T)
			COMBINATION PARTS		
QR701		UN2214	TRANSISTOR-RESISTOR	1	
QR702		UN2213	TRANSISTOR-RESISTOR	1	
QR711		UN2212	TRANSISTOR-RESISTOR	1	
QR712		UN2212	TRANSISTOR-RESISTOR	1	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR714		UN2214	TRANSISTOR-RESISTOR	1	
QR715		UN2214	TRANSISTOR-RESISTOR	1	
QR7312		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R712		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/16W 680	1	
R714		ERD2FCG330	CARBON 2W 33	1	<!>
R715		ERJ6GEYJ271	CHIP 1/16W 270	1	
R716		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	
R717		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/16W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R721		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R722		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R723		ERJ6GEYJ183	CHIP 1/16W 180K	1	
R724		ERJ6GEYJ101	CHIP 1/16W 100	1	
R725		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R728		ERDS2TJ471	CARBON 1/4W 470	1	
R729		ERJ6GEYJ471	CHIP 1/16W 470	1	
R731		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R732		ERJ6GEYJ330	CHIP 1/16W 33	1	
R733		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R734		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R736		ERJ6GEYJ471	CHIP 1/16W 470	1	
R737		ERJ6GEYJ274	CHIP 1/16W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/16W 330K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R739		ERJ6GEYJ471	CHIP 1/16W 470	1	
R740		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R741		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R742		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R743		ERJ6GEYJ470	CHIP 1/16W 47	1	
R744		ERJ6GEYJ821	CHIP 1/16W 820	1	
R745		ERJ6GEYJ331	CHIP 1/16W 330	1	
R746		ERDS2TJ181	CARBON 1/4W 180	1	
R750		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R756		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R758		ERJ6GEYJ681	CHIP 1/16W 680	1	
R760		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R761		ERJ6GEYJ221	CHIP 1/16W 220	1	
R762		ERJ6GEYJ471	CHIP 1/16W 470	1	
R763		ERJ6GEYJ471	CHIP 1/16W 470	1	
R764		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R765		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	
R774		ERJ6GEY0R00	CHIP 1/16W 0	1	
R791		ERJ6GEYJ750	CHIP 1/16W 75	1	
R792		ERJ6GEYJ120	CHIP 1/16W 12	1	
R793		ERJ6GEY0R00	CHIP 1/16W 0	1	
R7302		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R7303		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R7304		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R7305		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R7306		ERJ6GEYJ471	CHIP 1/16W 470	1	
R7307		ERJ6GEYJ104	CHIP 1/16W 100K	1	
R7308		ERJ6GEYJ273	CHIP 1/16W 27K	1	
R7309		ERDS2TJ102	CARBON 1/4W 1K	1	
R7310		ERJ6GEYJ474	CHIP 1/16W 470K	1	
R7311		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7312		ERJ6GEYJ563	CHIP 1/16W 56K	1	
R7313		ERJ6GEYJ824	CHIP 1/16W 820K	1	
R7314		ERJ6GEYJ224	CHIP 1/16W 220K	1	
R7315		ERJ6GEYJ224	CHIP 1/16W 220K	1	
R7316		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R7317		ERJ6GEYJ393	CHIP 1/16W 39K	1	
R7318		ERJ6GEYJ153	CHIP 1/16W 15K	1	
R7319		ERDS2TJ102	CARBON 1/4W 1K	1	
R7321		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7322		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7323		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R7324		ERJ6GEYJ821	CHIP 1/16W 820	1	
R7325		ERJ6GEYJ821	CHIP 1/16W 820	1	
R7327		ERDS2TJ751	CARBON 1/4W 750	1	
R7328		ERDS2TJ122	CARBON 1/4W 1.2K	1	
R7329		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7330		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R7331		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R7651		ERDS2TJ103	CARBON 1/4W 10K	1	
R7653		ERJ6GEYJ471	CHIP 1/16W 470	1	
R7654		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7655		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R7656		ERJ6GEYJ151	CHIP 1/16W 150	1	
R7657		ERJ6GEYJ104	CHIP 1/16W 100K	1	
R7658		ERJ6GEYJ393	CHIP 1/16W 39K	1	
R7659		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R7661		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7662		ERJ6GEYJ393	CHIP 1/16W 39K	1	
R7663		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R7664		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A	TRANSFORMER	1	
T752		EIS5EC005A	TRANSFORMER	1	
T753		EIS5EC007A	TRANSFORMER	1	
T7301		EIR7QG001B	IF TRANSFORMER	1	
			VARIABLE RESISTORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR701		EVND3AA00B23	VARIABLE RESISTOR 2K	1	
VR702		EVND3AA00B23	VARIABLE RESISTOR 2K	1	
VR741		EVN3ACA00B14	VARIABLE 10K	1	
VR751		EVNE4AA00B53	VARIABLE 5K	1	
VR7301		EVN38CA00B14	VARIABLE 10K	1	
VR7326		EVN38CA00B52	VARIABLE 500	1	
VR7328		EVN3ACA00B52	VARIABLE 500	1	
VR7340		EVNE4AA00B14	VARIABLE 10K	1	
VR7344		EVNE4AA00B14	VARIABLE 10K	1	
VR7660		EVNE4AA00B23	VARIABLE 2K	1	
			FILTERS		
X710		EFCH38MSP1	SAW FILTER	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5B	FILTER	1	
X713		EFCS5R5MS5B	FILTER	1	
X714		ELB5A016	FILTER	1	
X751		EFCS5R74MS5B	FILTER	1	
X752		EFCS5R74MS5B	FILTER	1	
			MISCELLANEOUS		
		VSC1788	SHIELD CASE (TOP)	1	
		VSC1789	SHIELD CASE (MAIN)	1	
		VSC1888	SHIELD CASE (BOTTOM)	1	
		TNV57808G2	TUNER	1	<!>
		ENC87954	RF CONVERTER	1	<!>
	■	VEP00H51C	TV DEMODULATOR INTERFACE		NV-D80B
			C.B.A.		
			CAPACITORS		
C701		ECEA1CK220	ELECTROLYTIC 16V 22U	1	
C702		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C703		ECEA1HKN2R2	ELECTROLYTIC 50V 2.2U	1	
C706		ECQV1H823JZ	MYLAR 50V 0.082U	1	
C707		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C710		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C715		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C716		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C717		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C718		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C719		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C720		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C721		ECEA1HKR27	ELECTROLYTIC 50V 0.27U	1	
C722		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C723		ECUX1H120JCN	CHIP 50V 12P	1	
C725		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C728		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C730		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C731		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C732		ECQV1H224JZ	MYLAR 50V 0.22U	1	
C734		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C735		ECUX1H070DCN	CHIP 50V 7P	1	
C736		ECQB1H103KH	MYLAR 50V 0.01U	1	
C737		ECUX1H151JCN	CHIP 50V 150P	1	
C739		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C740		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C741		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C742		ECUX1H030CCN	CHIP 50V 3P	1	
C743		ECUX1H270JPN	CHIP 50V 12P	1	
C744		ECEA1HKR47	ELECTROLYTIC 50V 0.47U	1	
C745		ECUX1H680JPN	CHIP 50V 68P	1	
C746		ECUX1H150JCN	CHIP 50V 15P	1	
C747		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C748		ECEA1CK330	ELECTROLYTIC 16V 33U	1	
C749		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C760		ECQV1H473JZ	MYLAR 50V 0.047U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C781		ECUX1H390JCN	CHIP 50V 39P	1	
C782		ECCF1H060DC	CERAMIC 50V 6P	1	
C7651		ECEA1CK100	ELECTROLYTIC 16V 10U	1	
C7652		ECEA1CKN330	ELECTROLYTIC 16V 33U	1	
C7653		ECQB1H392JH	MYLAR 50V 3900P	1	
C7654		ECQB1H103JH	MYLAR 50V 0.01U	1	
C7655		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7656		ECEA1HK010	ELECTROLYTIC 50V 1U	1	
C7657		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C7658		ECQP1562JZ	MYLAR 100V 5600P	1	
C7659		ECQB1H272JH	MYLAR 50V 2700P	1	
			DIODES		
D710		MA3100L	DIODE	1	
D712		MA29W	DIODE	1	
			ICS		
IC701		M51366SP	IC	1	
IC7651		AN5421	IC	1	
			COILS		
L702		VLQEL05F680K	COIL 68UH	1	
L711		ELQT1R2KB	COIL	1	
L712		ELQTR82XB	COIL	1	
L713		ELQTR56XB	COIL	1	
L714		ELQT1R2KB	COIL	1	
L715		VLQ0213F680T	COIL	1	
L717		VLQEL05F680K	COIL 68UH	1	
L718		VLQEL05F680K	COIL 68UH	1	
L719		VLQEL05F120K	COIL 12UH	1	
L781		VLQEL05F330K	COIL 33UH	1	
P701		VJP1231T	CONNECTOR(MALE) 4P	1	
P702		VJP1961	CONNECTOR	1	
P703		VJP1239T	CONNECTOR(MALE) 12P	1	
			PACK PINS		
PK701		VJR0190	PACK PIN	1	
PK702		VJR0190	PACK PIN	1	
			TRANSISTORS		
Q703		2SD601	TRANSISTOR CHIP	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q714		2SD601	TRANSISTOR CHIP	1	
Q761		2SD601	TRANSISTOR CHIP	1	
			COMBINATION PARTS		
QR701		UN2213	TRANSISTOR-RESISTOR	1	
QR702		UN2213	TRANSISTOR-RESISTOR	1	
QR711		UN2212	TRANSISTOR-RESISTOR	1	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R707		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/16W 680	1	
R714		ERD2FCG330	CARBON 2W 33	1	<!>
R715		ERJ6GEYJ271	CHIP 1/16W 270	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R716		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/16W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R721		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R723		ERJ6GEYJ104	CHIP 1/16W 100K	1	
R724		ERJ6GEYJ101	CHIP 1/16W 100	1	
R725		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R726		ERDS2TJ472	CARBON 1/4W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/16W 470	1	
R728		ERDS2TJ471	CARBON 1/4W 470	1	
R729		ERJ6GEYJ331	CHIP 1/16W 330	1	
R730		ERJ6GEYJ331	CHIP 1/16W 330	1	
R737		ERJ6GEYJ394	CHIP 1/16W 390K	1	
R738		ERJ6GEYJ394	CHIP 1/16W 390K	1	
R739		ERDS2TJ681	CARBON 1/4W 680	1	
R740		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R741		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R742		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R743		ERDS2TJ470	CARBON 1/4W 47	1	
R744		ERJ6GEYJ821	CHIP 1/16W 820	1	
R745		ERJ6GEYJ331	CHIP 1/16W 330	1	
R746		ERDS2TJ181	CARBON 1/4W 180	1	
R750		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R759		ERDS2TJ103	CARBON 1/4W 10K	1	
R760		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R761		ERJ6GEYJ101	CHIP 1/16W 100	1	
R762		ERJ6GEYJ471	CHIP 1/16W 470	1	
R763		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R781		ERJ6GEYJ681	CHIP 1/16W 680	1	
R782		ERJ6GEYJ471	CHIP 1/16W 470	1	
R792		ERJ6GEYJ120	CHIP 1/16W 12	1	
R7651		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R7654		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7655		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R7656		ERJ6GEYJ151	CHIP 1/16W 150	1	
R7657		ERDS2TJ104	CARBON 1/4W 100K	1	
R7658		ERDS2TJ393	CARBON 1/4W 39K	1	
R7659		ERDS2TJ822	CARBON 1/4W 8.2K	1	
R7661		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R7662		ERDS2TJ393	CARBON 1/4W 39K	1	
R7663		ERDS2TJ222	CARBON 1/4W 2.2K	1	
R7664		ERDS2TJ332	CARBON 1/4W 3.3K	1	
			TRANSFORMERS		
T703		EIV5EC005A	TRANSFORMER	1	
T704		EIV5EC007A	TRANSFORMER	1	
T711		EIS5EC008A	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVND4AA00B23	VARIABLE RESISTOR 2K	1	
VR741		EVN38CA00B14	VARIABLE 10K	1	
VR751		EVN38CA00B53	VARIABLE 5K	1	
VR7660		EVN38CA00B23	VARIABLE 2K	1	
			FILTERS		
X710		EFCH39MSP2	FILTER	1	
X711		EFCS6ROMW5	FILTER	1	
X712		EFCS6ROMS5	FILTER	1	
			MISCELLANEOUS		
		VSC1788	SHIELD CASE (TOP)	1	
		VSC1789	SHIELD CASE (MAIN)	1	
		VSC1888	SHIELD CASE (BOTTOM)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		TNV87452F2	TUNER	1	<!>
		ENC87952	RF CONVERTER	1	<!>
	■	VEP01274A	POWER C.B.A.		NV-D80EG
	■	VEP01274B			NV-D80EV/B
			CAPACITORS		
C1001		VCK0041	CERAMIC 250V 330P	1	<!>
C1002		VCK0041	CERAMIC 250V 330P	1	<!>
C1003		VCK0041	CERAMIC 250V 330P	1	<!>
C1004		VCK0041	CERAMIC 250V 330P	1	<!>
C1005		VCK0045	CERAMIC 250V 1500P	1	<!>
C1006		VCK0045	CERAMIC 250V 1500P	1	<!>
C1007		VCK0045	CERAMIC 250V 1500P	1	<!>
C1008		VCK0045	CERAMIC 250V 1500P	1	<!>
C1009		ECQU2A104MN	MYLAR 250V 0.100U	1	
C1010		ECOS2GU101F	ELECTROLYTIC 400V 100U	1	
C1011		ECQE6473MZ	MYLAR 630V 0.047U	1	
C1012		ECEA1CGE470	ELECTROLYTIC 16V 47U	1	
C1013		ECQB1H472KH	MYLAR 50V 4700P	1	
C1014		ECQV1H474JZ	MYLAR 50V 0.47U	1	
C1018		ECEA1HGE101	ELECTROLYTIC 10V 10P	1	
C1019		ECEA1PGE222Y	ELECTROLYTIC 10V 2200P	1	
C1020		ECEA1PGE222Y	ELECTROLYTIC 10V 2200P	1	
C1021		ECEA1CGE100	ELECTROLYTIC 16V 10U	1	
C1022		ECEA1HGE470	ELECTROLYTIC 50V 47U	1	
C1023		ECEA1EGE102	ELECTROLYTIC 25V 1000U	1	
C1024		ECEA0JFE102X	ELECTROLYTIC 6.3V 1000U	1	
C1027		ECKD3D151KB	CERAMIC 2KV 150P	1	
C1030		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C1031		VCK0045	CERAMIC 250V 1500P	1	<!>
C1032		VCK0045	CERAMIC 250V 1500P	1	<!>
C1033		VCK0041	CERAMIC 250V 330P	1	<!>
C1034		VCK0041	CERAMIC 250V 330P	1	<!>
C1035		VCK0045	CERAMIC 250V 1500P	1	<!>
C1036		VCK0045	CERAMIC 250V 1500P	1	<!>
C1037		ECQU2A224MN	MYLAR 250V 0.22U	1	
C1038		VCK0045	CERAMIC 250V 1500P	1	<!>
C1039		ECEA1CGE470	ELECTROLYTIC 16V 47U	1	
C1040		ECQP1101JZ	MYLAR 125V 100P	1	
C1041		ECQB1H223JH	MYLAR 50V 0.022U	1	
C1042		ECKF1H103ZF	CERAMIC 50V 0.01U	1	
C1044		ECEA1HGE101	ELECTROLYTIC 10V 10P	1	
C1045		ECEA1AGE470	ELECTROLYTIC 10V 47P	1	
C1046		ECQB1H223JH	MYLAR 50V 0.022U	1	
			DIODES		
D1001		S1WBA60	DIODE	1	<!>
D1002		ERA22-08	DIODE	1	
D1003		MA178	DIODE	1	
D1004		MA178	DIODE	1	
D1005		MA178	DIODE	1	
D1007		MA185	DIODE	1	
D1008		MA185	DIODE	1	
D1010		ERD32-01	DIODE	1	
D1012		MA4130L	DIODE	1	
D1013		MA185	DIODE	1	
D1015		ERC81-004	DIODE	1	
D1016		AK04V2	DIODE	1	
D1024		MA178	DIODE	1	
D1025		MA178	DIODE	1	
D1026		MA4100H	DIODE	1	
D1027		ERD32-01	DIODE	1	
D1029		ENB461D-05A	SURGE ABSORBER 460V	1	
D1030		MA4082	DIODE	1	
D1031		AK04V2	DIODE	1	
D1032		ERA22-10	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			IC		
IC1001		STK5339	IC	1	
			COILS		
L1001		ELF18D428	COIL	1	<!>
L1002		ELC07D220	COIL 22U	1	
L1003		ELC07D220	COIL 22U	1	
			CONNECTOR		
P1001		VJS1964	CONNECTOR	1	
			TRANSISTORS		
Q1001		STR16006	TRANSISTOR	1	<!>
Q1004		2SD638	TRANSISTOR	1	(Q,R,S)
Q1011		2SB643	TRANSISTOR	1	(Q)
Q1012		2SD958	TRANSISTOR	1	
Q1013		2SB788	TRANSISTOR	1	
			RESISTORS		
R1002		ERF2AK2R2	WIRE WOUND 2W 2.2	1	<!>
R1003		ERDS2TJ474	CARBON 1/4W 470K	1	
R1004		ERDS2TJ474	CARBON 1/4W 470K	1	
R1005		ERDS2TJ474	CARBON 1/4W 470K	1	
R1006		ERDS2TJ474	CARBON 1/4W 470K	1	
R1007		ERG3SJ683	METAL OXIDE 68K	1	
R1008		ERW2PKR39T	WIRE WOUND 2W 0.39	1	
R1009		ERG1SJ181	METAL OXIDE 1W 180	1	
R1012		ERQ12HJ6R8P	FUSE 1/2W 6.8	1	<!>
R1014		ERD2FCJ4R7	CARBON 2W 4.7	1	<!>
R1016		ERX12ANJ2R2P	FUSE 2.2	1	
R1017		ERG12ANJ332P	METAL OXIDE 1/2W 3.3K	1	
R1025		ERDS2TJ562	CARBON 1/4W 5.6K	1	
R1028		ERDS2TJ271	CARBON 1/4W 270	1	
R1029		ERDS2TJ103	CARBON 1/4W 10K	1	
R1030		ERDS2TJ103	CARBON 1/4W 10K	1	
R1031		ERDS2TJ101	CARBON 1/4W 100	1	
R1032		ERDS2TJ102	CARBON 1/4W 1K	1	
R1033		ERDS2TJ333	CARBON 1/4W 33K	1	
R1034		ERDS2TJ150	CARBON 1/4W 15	1	
R1035		ERW2PKR39T	WIRE WOUND 2W 0.39	1	
R1036		ERDS2TJ104	CARBON 1/4W 100K	1	
R1037		ERC12GM334C	DIODE	1	
			TRANSFORMER		
T1001		VLT0508	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	4	<!>
		VSC1831	TR SHIELD PLATE	1	
	■	VEP66019E	DIGITAL SCANNER		NV-D80B
	■	VEP66019D			NV-D80EG/EV
			CAPACITORS		
C01		ECEA0JK470I	ELECTROLYTIC 6.3V 47U	1	
C02		ECEA1HKN010I	ELECTROLYTIC 50V 1U	1	
C03		ECUX1E104ZFM	CHIP 25V 0.1U	1	
C04		ECUX1E104ZFM	CHIP 25V 0.1U	1	
C05		ECEA1HK010I	ELECTROLYTIC 50V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C06		ECEA1AKA470I	ELECTROLYTIC 10V 47U	1	
C07		ECUX1H330JCN	CHIP 50V 33P	1	
C08		ECUX1H330JCN	CHIP 50V 33P	1	
C09		ECUX1H103ZFN	CHIP 50V 0.01U	1	
			DIODES		
D01		MA151WK	DIODE	1	
D02		MA151WK	DIODE	1	
D03		MA151WK	DIODE	1	
D04		MA151WK	DIODE	1	
D05		MA153	DIODE	1	
D06		SE303AY	DIODE	1	
			ICS		
IC01		UPD49HG88022	IC	1	OR UPD49HG87722
IC02		UPC324G2	IC	1	
IC03		NJM78L02AA	IC	1	
			COILS		
L01		ELT3K014C	COIL	1	NV-D80B
L01		ELT3K017A	COIL	1	NV-D80EG/EV
			CONNECTOR		
P01		VJP1229T	CONNECTOR(MALE) 2P	1	
			TRANSISTORS		
Q01		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q02		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q04		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
			RESISTORS		
R01		ERJ6GMYJ470	CHIP 1/16W 47	1	
R02		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R03		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R04		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R05		ERJ6GMYJ202	CHIP 1/16W 2K	1	
R06		ERJ6GMYJ244	CHIP 1/16W 240K	1	
R07		ERJ6GMYJ162	CHIP 1/16W 1.6K	1	
R10		ERJ8GCYK106	CHIP 1/8W 10M	1	
R11		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R12		ERJ8GCYK106	CHIP 1/8W 10M	1	
R13		ERJ6GMYJ361	CHIP 1/16W 360	1	
R14		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R15		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R16		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R17		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R18		ERDS2EJ6R8	CARBON 1/4W 6.8	1	
R20		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R23		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R24		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R28		ERJ6GMY0R00	CHIP 0	1	
			SWITCHS		
SW01		VSS0211	SWITCH	1	
SW02		VSP0221	SWITCH	1	
			CRYSTAL OSCILLATOR		
X01		VSX0199	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			BUZZER		
X02		VSQ0536	BUZZER	1	OR VSQ0552
			SENSOR UNIT		
PC1		VSQ0533	SENSOR UNIT	1	OR VSQ0546
	■	VEP00J12A	HEADPHONE C.B.A.		NV-D80EG
	■	VEP00J12B			NV-D80EV/B
			CAPACITORS		
C6301		ECEA1AKS330	ELECTROLYTIC 10V 33P	1	
C6302		ECQB1H103KH	MYLAR 50V 0.01U	1	
C6303		ECEA1CKA330	ELECTROLYTIC 16V 33P	1	
C6305		ECQB1H103KH	MYLAR 50V 0.01U	1	NV-D80EG
C6307		ECQB1H103KH	MYLAR 50V 0.01U	1	NV-D80EG
			COILS		
L6301		VLQEL05F471K	COIL 470UH	1	
L6303		VLQEL05F471K	COIL 470UH	1	
			CONNECTORS		
P6505		VJS1741T	CONNECTORS 8P	1	
			IC		
1C6301		VCR0172	IC	1	
			MISCELLANEOUS		
		VJJ0096	HEADPHONE JACK	1	
		VJJ0138	MIC JACK	1	
		VJF0427	MIC JACK HOLDER	2	
	■	ENC87956	RF CONVERTER & ANTENA		NV-D80EG<!>
	■	ENC87954	BOOSTER UNIT		NV-D80EV<!>
	■	ENC87952			NV-D80B<!>
			INTEGRATED CIRCUIT		
IC1		LA7051	IC	1	
			TRANSISTORS		
Q1		2SC2570A	TRANSISTOR	1	OR 2SC3355
Q2		2SC3130	TRANSISTOR	1	
			DIODES		
D1		MA1075	ZENER	1	
D2		HSM276S		1	
D3		MA166		1	
D4		MA166		1	NV-D80B
D5		MA166		1	
			NOTE:		
			THE OTHER PARTS FOR		
			RF CONVERTER & ANTENA		
			BOOSTER UNIT ARE		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			NOT AVAILABLE AS SPARE		
			PARTS.		
	■	VEP66008A	PROGRAMMABLE REMOTE		
			CONTROL UNIT C.B.A		
			CAPACITORS		
C1		ECEA0GKS101	ELECTROLYTIC 4V 100U	1	
C2		ECKF1H121KB	CERAMIC 50V 120P	1	
C3		ECKF1H121KB	CERAMIC 50V 120P	1	
C4		ECQB1H222KZ	MYLAR 50V 2200P	1	
			DIODES		
D1		SE303AY	DIODE	1	
D2		MA154WK	DIODE	1	
D3		MA154WK	DIODE	1	
D4		MA154WK	DIODE	1	
D5		MA165	DIODE	1	
D6		MA154WK	DIODE	1	
D7		MA154WK	DIODE	1	
D8		MA154WK	DIODE	1	
			INTEGRATED CIRCUIT		
IC1		MN6011D	IC	1	
			COMBINATION PART		
			(TRANSISTOR & RESISTORS)		
QR1		UN1231	TRANSISTOR - RESISTORS	1	
QR2		DTA144EA	TRANSISTOR - RESISTORS	1	
			RESISTOR		
R1		ERDS2TJ1R0	CARBON 1/4W 1.0	1	
R2		ERDS2TJ393	CARBON 1/4W 39K	1	
			CRYSTAL OSCILLATOR		
		VSX0201	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJR0253	ELECTRODE (+)		
		VJR0254	ELECTRODE (-)		
	■	VEP00H22A	CYLINDER DRIVE C.B.A		
			CAPACITORS		
C2901		ECEA1VSN2R2	ELECTROLYTIC 35V 2.2U	1	
C2902		ECEA1VSN2R2	ELECTROLYTIC 35V 2.2U	1	
C2903		ECEA1VSN2R2	ELECTROLYTIC 35V 2.2U	1	
C2904		ECEA1HKSR22	ELECTROLYTIC 50V 22U	1	
C2905		ECEA1HKSR22	ELECTROLYTIC 50V 22U	1	
C2906		ECEA1HKSR22	ELECTROLYTIC 50V 22U	1	
C2907		ECEA1HKSR33	ELECTROLYTIC 50V 33U	1	
C2908		ECQV1H473	MYLAR 50V 0.047U	1	
C2909		ECQV1H104	MYLAR 50V 0.1U	1	
C2910		ECEA1CKS100	ELECTROLYTIC 16V 10U	1	
			INTEGRATED CIRCUIT		
IC2901		AN3812K	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTOR		
R2901		ERX12ANJR68	METAL OXIDE 1/4W 0.68	1	
			CONNECTORS		
P2901		VJP1232		1	
P2902		VJP1927		1	
			MISCELLANEOUS		
		VSC1843	SINK HEAT	1	
		VMA6884	MAIN HOLDER	1	
	■	VEP00H30A	MECHANISM CONNECTION		
			C.B.A. CONNECTORS		
			CONNECTORS		
P1504		VJP1939	12P	1	
P1505		VJP1242T	2P	1	
			RESISTORS		
R1501		ERDS2TJ223	CARBON 1/4W 22K	1	
	■	VEP00H31A	REEL SENSOR C.B.A.		
			PHOTO TRANSISTOR		
			INTEGRATED CIRCUITS		
IC1501		ON2170		1	
			CONNECTOR		
			CONNECTORS		
P1506		VJP1242	2P	1	
	■	VXA2689	LED C.B.A. UNIT		
			DIODES		
D1501		GL450	PHOTO DIODE	1	
			MISELLANEOUS		
		VMD0911	LED HOLDER	1	
		VWJ0254	FLEXISIBLE C.B	1	
	■	VEP00H34A	TAKEUP PHOTO Tr C.B.A.		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C1502		ECKW1H102KBN	CERAMIC 50V 1000P	1	
			RESISTORS		
R1503		ERDS2TJ222	CARBON 1/4W 2.2K	1	
			CONNECTORS		
P1503		VJS1936		1	
P1508		VJP1242T		1	
			TRANSISTOR		
Q1502		PN150NV	PHOTO TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO TR HOLDER	1	
	■	VEP00H35A	SUPPLY PHOTO Tr C.B.A.		
			CAPACITOR		
C1501		ECKW1H102KBN	CERAMIC 50V 1000P	1	
			TRANSISTOR		
Q1501		PN150NV	PHOTO TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO TR HOLDER	1	
	■	VEP03485A	SYNC GENERATOR C.B.A.		NV-D80EG/EV
	■	VEP03485B			NV-D80B
			ICS		
IC9501		UPD74HC221AC	IC	1	
IC9502		UPD4001BC	IC	1	
IC9503		UPD74HC221AC	IC	1	
IC9504		UPD74HC221AC	IC	1	
IC9505		UPD4001BC	IC	1	
			RESISTORS		
R9501		ERDS2TJ103	CARBON 1/4W 10K	1	
R9502		ERDS2TJ472	CARBON 1/4W 4.2K	1	
R9503		ERDS2TJ472	CARBON 1/4W 4.2K	1	
R9504		ERDS2TJ103	CARBON 1/4W 10K	1	
R9505		ERDS2TJ103	CARBON 1/4W 10K	1	
R9506		ERDS2TJ273	CARBON 1/4W 27K	1	
R9507		ERDS2TJ103	CARBON 1/4W 10K	1	
R9508		ERDS2TJ103	CARBON 1/4W 10K	1	
R9509		ERDS2TJ103	CARBON 1/4W 10K	1	
R9510		ERDS2TJ103	CARBON 1/4W 10K	1	
			CAPACITORS		
C9501		ECEA0JK470	ELECTROLYTIC 6.3V 47P	1	

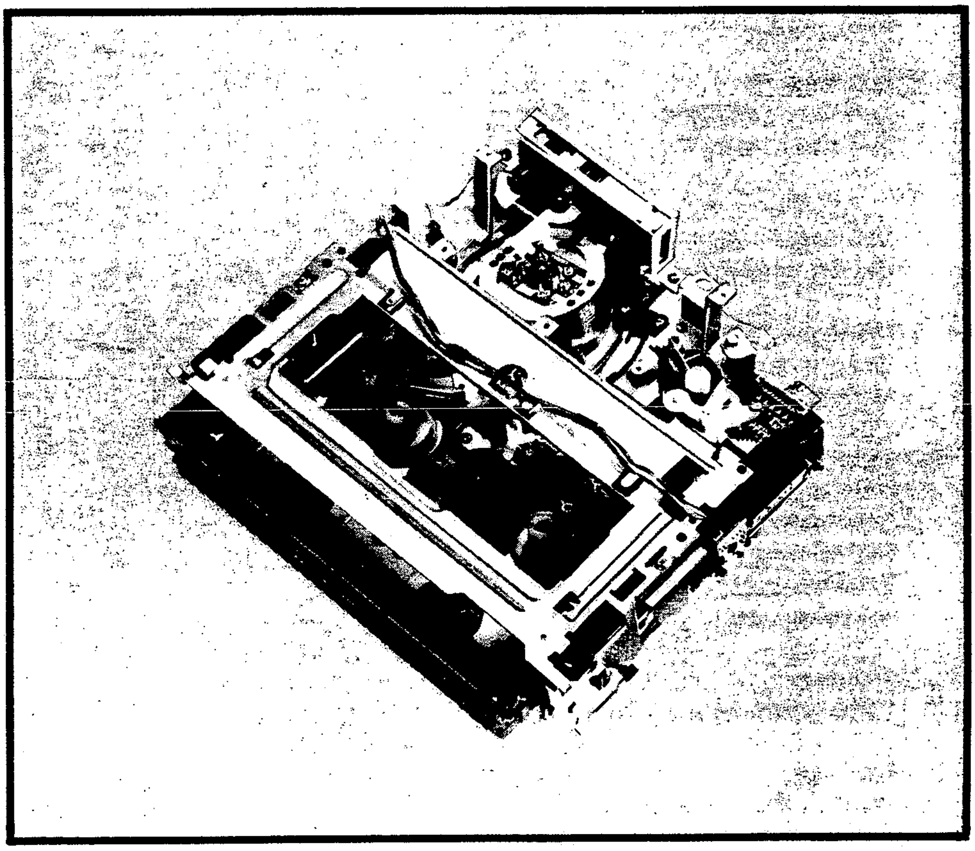
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C9502		ECQV1H104JZ	MYLAR 50V 0.1U	1	
C9503		ECQB1H472JZ	MYLAR 50V 4700P	1	
C9504		ECQB1H152JH	MYLAR 50V 1500P	1	
C9505		ECQB1H152JH	MYLAR 50V 1500P	1	
C9506		ECQB1H472JZ	MYLAR 50V 4700P	1	
C9507		ECQB1H103JH	MYLAR 50V 0.01U	1	
C9508		ECQV1H563JZ	MYLAR 50V 0.056U	1	
			COIL		
L9501		VLQEL05F101K	COIL	1	
			SWITCH		
S9501		EVQQS307K	SWITCH	1	NV-D80EG/EV
			MISCELLANEOUS		
		VJF0090	HINGE	2	NV-D80EG/EV
		VMX0718	SPACER	1	
C9505					

Service Manual

VHS Video Cassette Recorder
Mechanical chassis

No. G

ANLEITUNG
ZUR MONTAGE
DER ANTRIEBSTEILE



Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

INHALT

Seite

Einführung zum Laufwerk G 1

I. Service-Hinweise

I-1 Manueller Kassettenauswurf 2

I-2 Manuelle Funktionsprüfung 3

I-3 Elektrische Funktionsprüfung 4

II. Montage der Einzelteile

II-1 Allgemeines 5

II-2 Montage
Ring gear <1>
Sub cam gear <2>
Detent arm <3> 6

II-3 Montage
Pinch speed down gear <4>
Main cam gear <5> 6

II-4 Montage
Loading cam gear <6>
Retainer gear <7> 7

II-5 Montage
Centre gear <8> 8

II-6 Montage
Cam follower arm <9>
Main lever unit <10> 8

II-7 Montage
Loading gear (T) <11>
Loading gear (S) <12>
Sector gear <13>
Tension roller unit <14>
SS brake unit <15> 9

II-8 Montage
Connection gear <16> 9

II-9 Montage
Mode select switch <17>
P5 pull out sector <18> 10

II-10 Montage
Pinch cam <19>
Pressure roller unit <20>
Pinch cam cap <21> 10

II-11 Einbau des Kassettenschachtes 11-13

EINFÜHRUNG ZUM LAUFWERK G

Diese neue Antriebseinheit kommt bisher in folgenden PANASONIC VHS-Videorekordern zum Einsatz: **NV-G21, NV-H65, NV-H75, NV-D80, NV-G40** und **NV-G45.**
Als Besonderheit des Laufwerkes G ist hervorzuheben, daß alle mechanischen Bewegungen (Kassetteneinzug, Band einfädeln, Bandantrieb, Band aufwickeln und umspulen) vom Capstanmotor angetrieben werden.
Die Umsetzung der Antriebskraft des Capstanmotors erfolgt mit Zahnrädern und entsprechenden Getrieben für den jeweiligen Betriebszustand.
Eine detaillierte Beschreibung der Funktionsabläufe im Laufwerk G ist im **Training Manual NV-G21/H65** enthalten.
Diese Anleitung beschreibt speziell den Zusammenbau sowie die mechanische und elektrische Funktionsprüfung des Laufwerkes G.

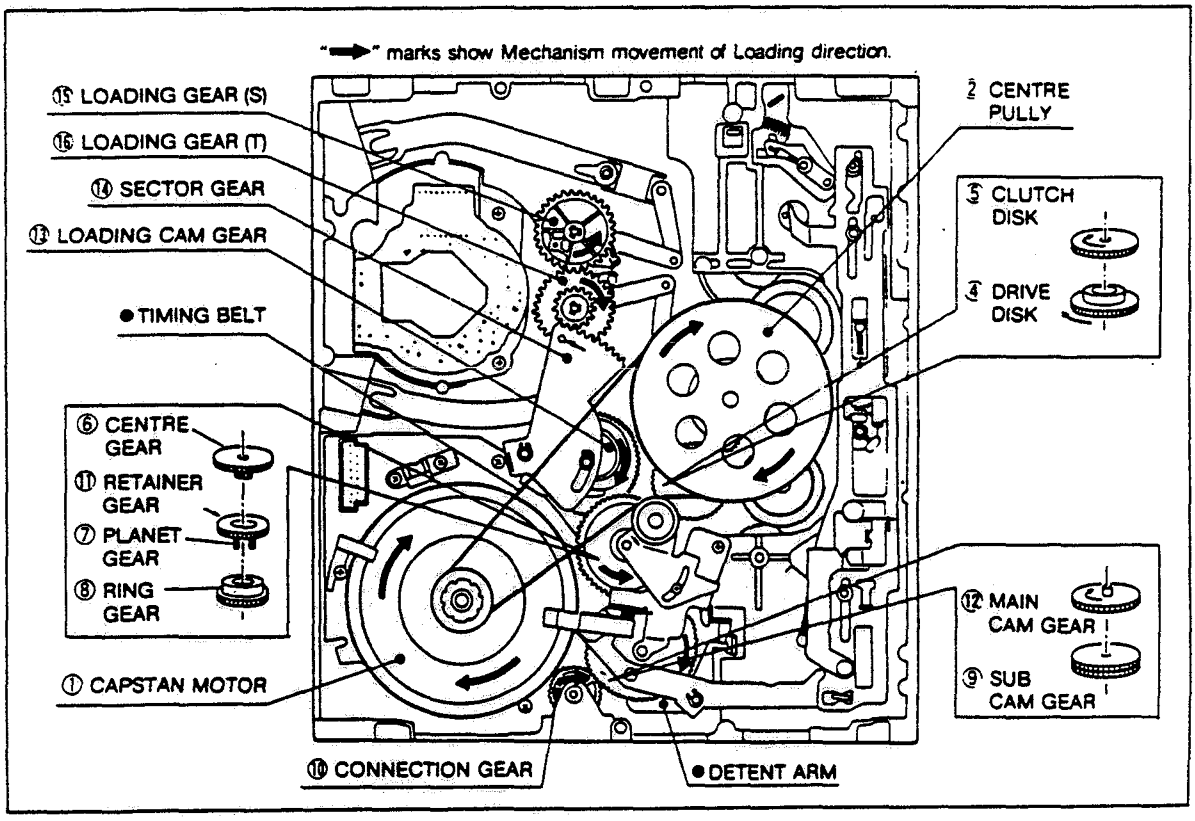

"➡" marks show Mechanism movement of Loading direction.
⑮ LOADING GEAR (S)
⑯ LOADING GEAR (T)
⑭ SECTOR GEAR
⑬ LOADING CAM GEAR
● TIMING BELT
⑥ CENTRE GEAR
⑪ RETAINER GEAR
⑦ PLANET GEAR
⑧ RING GEAR
① CAPSTAN MOTOR
⑩ CONNECTION GEAR
● DETENT ARM
② CENTRE PULLY
⑤ CLUTCH DISK
④ DRIVE DISK
⑫ MAIN CAM GEAR
⑨ SUB CAM GEAR

Abb. 1 Laufwerk G von unten gesehen

I. SERVICE-HINWEISE

I-1 Manueller Kassettenauswurf (Eject)

Im Falle elektrischer Funktionsstörungen kann u.U. das Band nicht automatisch ausgefädelt und die Kassette nicht ausgeworfen werden

Eject von Hand ist wie folgt möglic:

1. **Change lever** -wie in Abb. 2 gezeigt- in Pfeilrichtung drücken. Dadurch werden **Drive disc** und **Clutch disc** verbunden; mechanische Zustandswechsel sind jetzt möglich.
2. Capstanmotor entgegen der Uhrzeigerrichtung drehen. Nach einer Umdrehung des **Clutch disc** rastet der **Change lever** wieder ein; **Clutch disc** und **Drive disc** werden getrennt.
3. **Change lever** erneut in Pfeilrichtung drücken, um **Clutch disc** und **Drive disc** miteinander zu verbinden.
4. Schritt 2 und 3 sooft wiederholen, bis die Kassette ausgeworfen ist.

Bitte beachten:

Die Bewegung der Mechanik durch drehen des **Centre pulley** ist **nicht zu empfehlen.** Das dadurch entstehende hohe Drehmoment könnte bei einem Fehler in der Mechanik zur Beschädigung von Teilen führen.

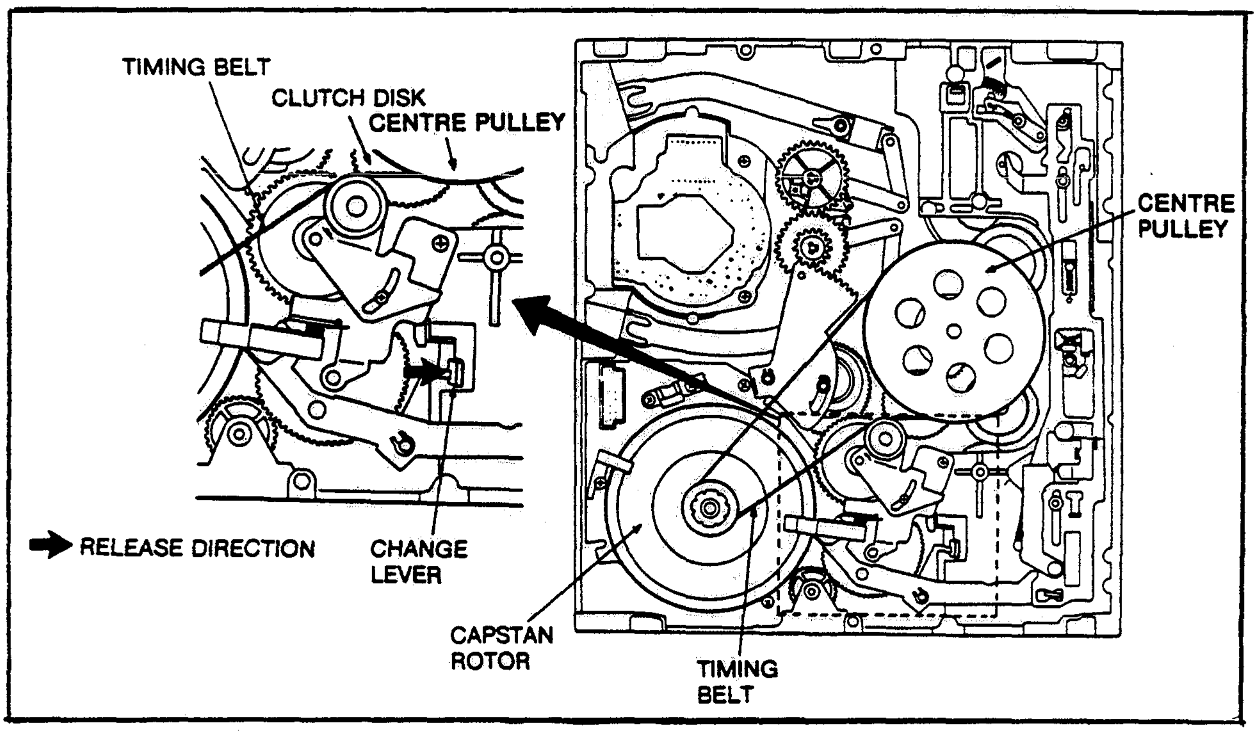

TIMING BELT
CLUTCH DISK
CENTRE PULLEY
CENTRE PULLEY
➡ RELEASE DIRECTION
CHANGE LEVER
CAPSTAN ROTOR
TIMING BELT

Abb. 2 Eject manuell

I-2 Manuelle Funktionsprüfung

In gleicher Weise wie beim Kassettenauswurf können auch alle anderen Funktionen des Laufwerkes von Hand überprüft werden. Um die Abläufe besser sehen zu können, ist es zweckmäßig, zunächst den Kassettenschacht auszubauen. Dazu ist wie folgt zu verfahren:

1. Netzkabel abziehen
2. Zweipoligen Stecker an der rechten Schachtseite vorsichtig abziehen.
3. **Top plate** abnehmen; dazu 2 Schrauben (Srews (O) in Abb. 3) enfernen und Blech abnehmen.
4. Je zwei Schrauben (Srews (B) und (C) in Abb. 4) entfernen, Kassettenschacht herausnehmen.

Durch drehen des Capstanmotors in Uhrzeigerrichtung und jeweiliges drücken des **Change lever** nach einer Umdrehung des **Clutch disc** wird zunächst die Position **Half loading** erreicht. Diese Position ist daran zu erkennen, daß der **Sub loading arm** und **Post P5** in ihre Arbeitspositionen bewegt wurden. Ferner werden je nach Drehrichtung des Capstanmotors der Aufwickel- oder Abwickelteller bewegt.
Wird der **Change lever** erneut betätigt und der Capstanmotor im Uhrzeigersinn gedreht, werden auch P2 und P3 zur Bandeinfädelung bewegt. Durch Wiederholung von **Change lever** Betätigung und Capstanmotordrehung wird schließlich der normale **Play mode** erreicht.
Durch Umkehrung der Drehrichtung des Capstanmotors und wiederholter Betätigung des **Change lever** wird über die Position **Half loading** zuletzt die Position **Eject** erreicht.

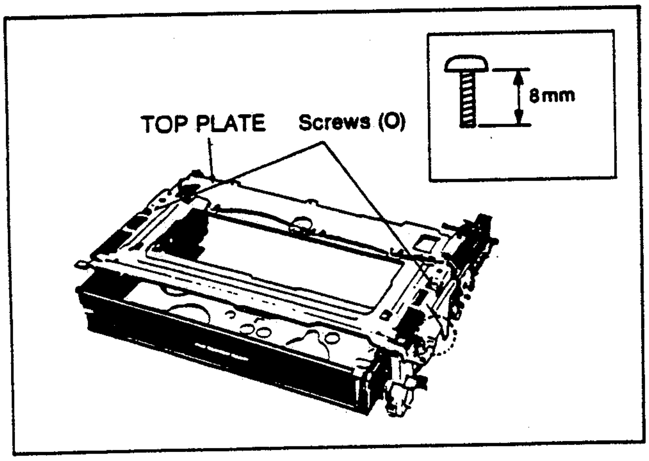


Abb. 3 Top plate

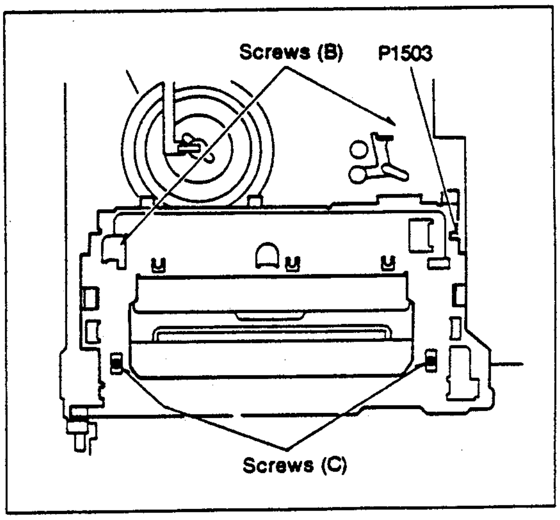


Abb. 4 Kassettenschachtschrauben

I-3 Elektrische Funktionsprüfung

Die Funktionen des Laufwerkes können auch elektrisch ohne Kassette überprüft werden. Dies ist sowohl bei eingebautem, als auch bei ausgebautem Schacht möglich; allerdings **immer aus der Position Half loading**. Funktionsprüfung aus **Eject** ist ohne Kassette nicht durchführbar. Für diese Überprüfung ist es erforderlich die 5-polige Leitung von P 1503 an der rechten Seite des Kassettenschachtes abzuziehen; danach Gerät einschalten.

Es können die Funktionen **Play, Cue, Review,** **FF REW** und **Pause** ohne Kassette eingeschaltet werden.

Bitte beachten:

Bei eingebautem Kassettenschacht und an P 1503 abgezogener Leitung die Funktion **Eject** nicht betätigen.

Der Wiedereinbau des Kassettenschachtes nach der Funktionsprüfung wird in Abschnitt II bei der Montage der Einzelteile erklärt.

II. MONTAGE DER EINZELTEILE IM LAUFWERK G

II-1 Allgemeines

Der **Mode select switch** meldet den jeweiligen Betriebszustand des Laufwerkes an die Systemkontrolle. Wesentlich für alle weiteren Bewegungsabläufe in der Mechanik ist deshalb die Übereinstimmung des **Mode select switch** mit den anderen Teilen des Laufwerkes. Stehen Antriebsteile nicht in der richtigen Position zueinander, so kann es zu Fehlsteuerungen wie ausfädeln oder Zwangsstopp des Laufwerkes kommen. Dadurch können auch elektrische oder mechanische Beschädigungen entstehen.

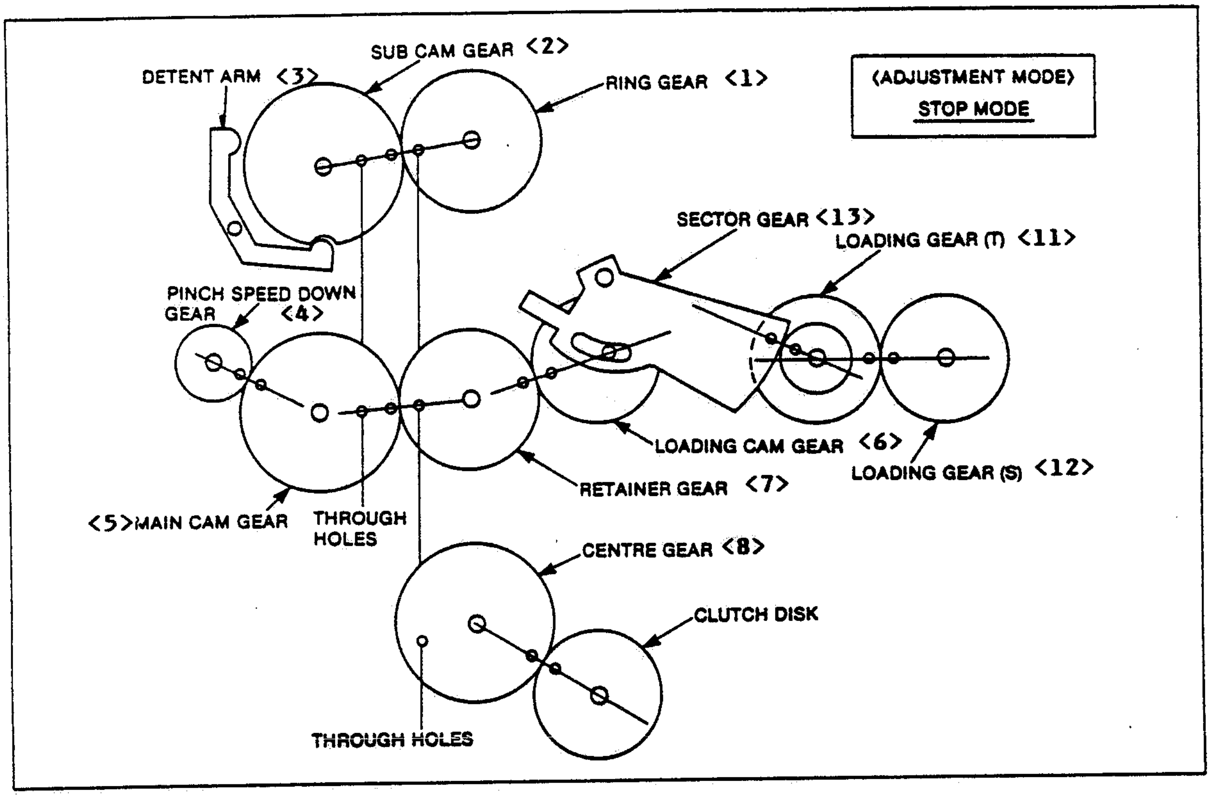

SUB CAM GEAR <2>
DETENT ARM <3>
RING GEAR <1>
(ADJUSTMENT MODE)
STOP MODE
SECTOR GEAR <13>
LOADING GEAR (T) <11>
PINCH SPEED DOWN GEAR <4>
LOADING CAM GEAR <6>
LOADING GEAR (S) <12>
RETAINER GEAR <7>
<5>MAIN CAM GEAR
THROUGH HOLES
CENTRE GEAR <8>
CLUTCH DISK
THROUGH HOLES

Abb. 5 Aufbau Laufwerk G

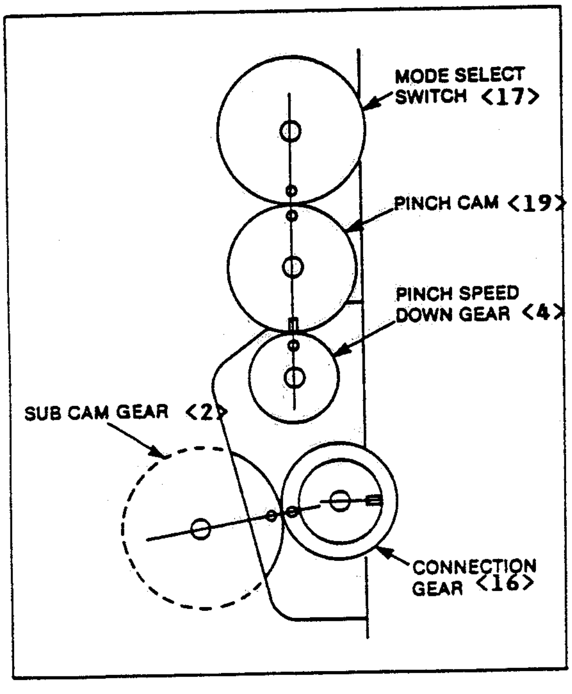

MODE SELECT SWITCH <17>
PINCH CAM <19>
PINCH SPEED DOWN GEAR <4>
SUB CAM GEAR <2>
CONNECTION GEAR <16>

Abb. 6

Die verschiedenen Teile (Zahnräder, Hebel usw.) im Laufwerk G sind von der Unterseite betrachtet in 3 Ebenen angeordnet. Dazu ein Beispiel: Das **Ring gear** befindet sich direkt auf dem Chassis. Darüber ist das **Retainer gear** aufgebaut. Ganz obenauf in dritter Ebene ist schließlich das **Centre gear** auf der gleichen Achse angebracht. Verdeutlicht wird dies durch Abb. 5.

Einige Teile sind von der Oberseite zu montieren. Diese sind in Abb. 6 ersichtlich.

Bitte beachten:
Zusätzlich zur Originalbezeichnung wurden die Einzelteile durchnumeriert (z.B. **Sector gear <13>**). Die in spitzen Klammern stehende Zahl gibt die Reihenfolge der Montage an.
Nach erfolgtem Zusammenbau befindet sich das Laufwerk in **Stop mode.** Dies ist identisch mit **Half loading,** d.h. **Sub loading post** und **Post P5** sind in Arbeitsstellung. Das Videoband liegt am CTL-Kopf an. Damit können auch bei schnellem Vor- und Rücklauf CTL-Pulse gelesen werden, die beim Laufwerk G zur Echtzeitanzeige verwendet werden.

II-2 Montage von Ring gear <1>, Sub cam gear <2> und Detent arm <3>

Das Ring gear **<1>** so einsetzen, daß die beiden großen Bohrungen mit den Löchern im Chassis deckungsgleich sind.
Das Sub cam gear **<2>** so einsetzen, daß die große Bohrung mit dem Loch im Chassis zur Deckung kommt und die kleine Bohrung an der Außenseite mit der kleinen Bohrung des Ring gear **<1>** fluchtet.
Den Detent arm **<3>** passend in die Kerbe des Sub cam gear **<2>** einsetzen (siehe dazu Abb. 7).

II-3 Montage von Pinch speed down gear <4> und Main cam gear <5>

Das Pinch speed down gear **<4>** von der Oberseite des Laufwerkes einsetzen und mit Kunststoffsprengring (Cut washer) sichern.
Das Main cam gear **<5>** so einsetzen, daß die große Bohrung deckungsgleich mit der großen Bohrung im Sub cam gear **<2>** ist. Die kleine Bohrung am Rand muß mit der Markierung am Rand des Pinch speed down gear **<4>** fluchten, wie in Abb. 8 gezeigt.

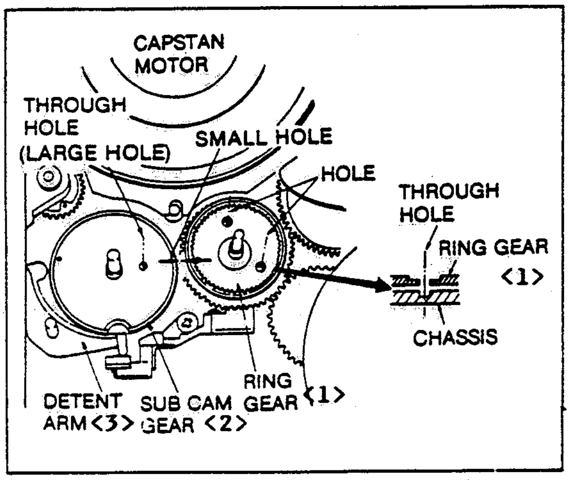

CAPSTAN MOTOR
THROUGH HOLE (LARGE HOLE)
SMALL HOLE
HOLE
THROUGH HOLE
RING GEAR <1>
CHASSIS
DETENT ARM <3>
SUB CAM GEAR <2>
RING GEAR <1>

Abb. 7

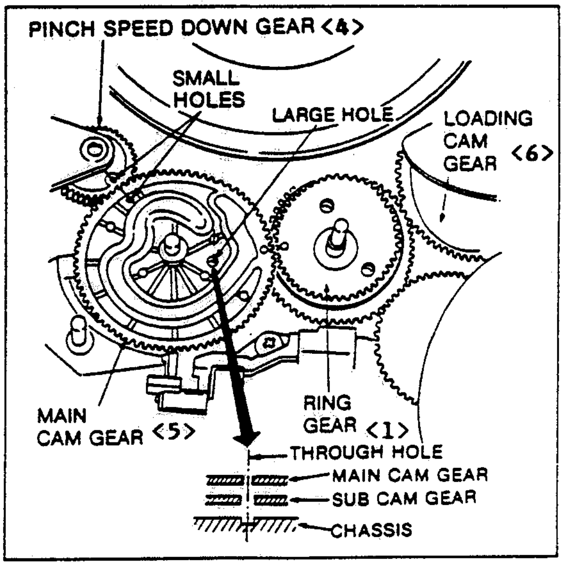

PINCH SPEED DOWN GEAR <4>
SMALL HOLES
LARGE HOLE
LOADING CAM GEAR <6>
MAIN CAM GEAR <5>
RING GEAR <1>
THROUGH HOLE
MAIN CAM GEAR
SUB CAM GEAR
CHASSIS

Abb. 8

II-4 Montage von Loading cam gear <6> und Retainer gear <7>

Beim Einbau des Loading cam gear <6> zunächst darauf achten, daß das Ende des Sub loading arm in die Aussparung (Rift A) zu liegen kommt.
Bei falschem Einbau kann der Sub loading arm beschädigt werden.

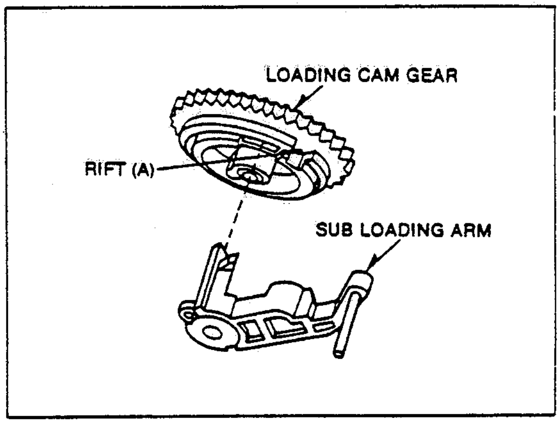

LOADING CAM GEAR
RIFT (A)
SUB LOADING ARM

Abb. 9

Anschließend das Loading cam gear <6> soweit drehen, daß die beiden Bohrungen mit der Achse des Ring gear <1> fluchten, wie in Abb. 10 gezeigt.
Das Retainer gear <7> so einsetzen, daß die großen Bohrungen deckungsgleich mit den großen Bohrungen im Ring gear <1> sind. Die kleinen Bohrungen des Retainer gear <7> müssen dabei einerseits mit der Randbohrung des Main cam gear <5> und andererseits mit der Randbohrung des Loading cam gear <6> fluchten.

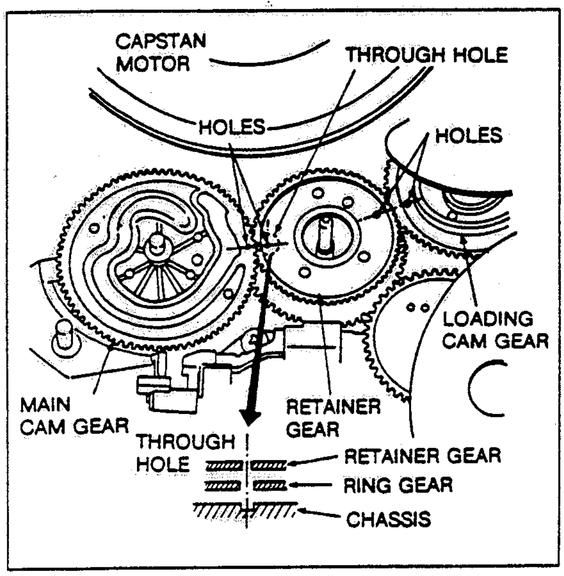

CAPSTAN MOTOR
THROUGH HOLE
HOLES
HOLES
LOADING CAM GEAR
MAIN CAM GEAR
RETAINER GEAR
THROUGH HOLE
RETAINER GEAR
RING GEAR
CHASSIS

Abb. 10

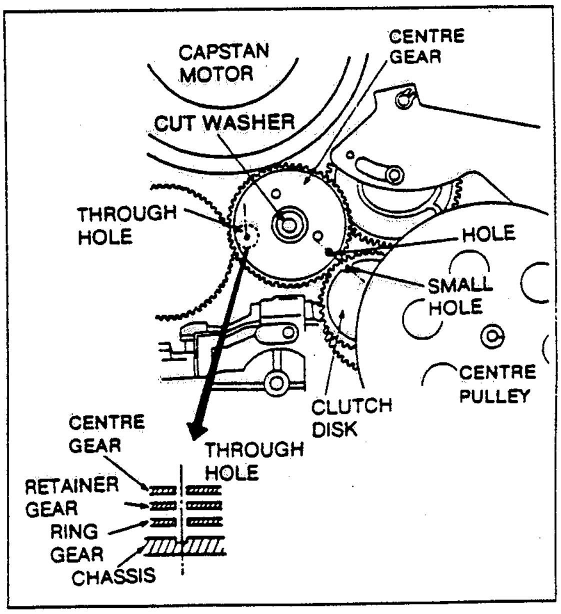

CAPSTAN MOTOR
CENTRE GEAR
CUT WASHER
THROUGH HOLE
HOLE
SMALL HOLE
CENTRE PULLEY
CLUTCH DISK
CENTRE GEAR
THROUGH HOLE
RETAINER GEAR
RING GEAR
CHASSIS

Abb. 11

II-5 Montage des Centre gear <8>

Über dem Ring gear <1> und dem Retainer gear <7> wird in der dritten Ebene das Centre gear <8> montiert.

Die großen Bohrungen müssen deckungsgleich mit den Bohrungen im Retainer gear <7> sein und die kleine Bohrung am Rand des Centre gear <8> muß mit der Randbohrung des Clutch disc fluchten.

Zuletzt das Centre gear <8> mit einem Kunststoffsprengring (Cut washer) sichern.

Abb. 11 auf Seite 7 zeigt die korrekte Einbaulage des Centre gear <8>.

II-6 Montage Cam follower arm <9> und Main lever unit <10>

Den Cam follower arm <9> so einsetzen, daß seine Nase in der Nut des Main cam gear <5> liegt. Dann den Cam follower arm <9> mit einem Metallsprengring (Retaining ring) auf seiner Achse sichern.

Main lever unit <10> einsetzen. Dabei darauf achten, daß alle Nasen richtig einrasten, wie in nebenstehender Abb. 12 ersichtlich. Zuletzt Main lever unit <10> mit zwei Kunststoffsprengringen (Cut washer) sichern.

Bitte beachten:

Die Montage von Cam follower arm <9> und Main lever unit <10> kann in umgekehrter Reihenfolge erforderlich sein, weil das Laufwerk G in zwei Versionen gebaut wird.

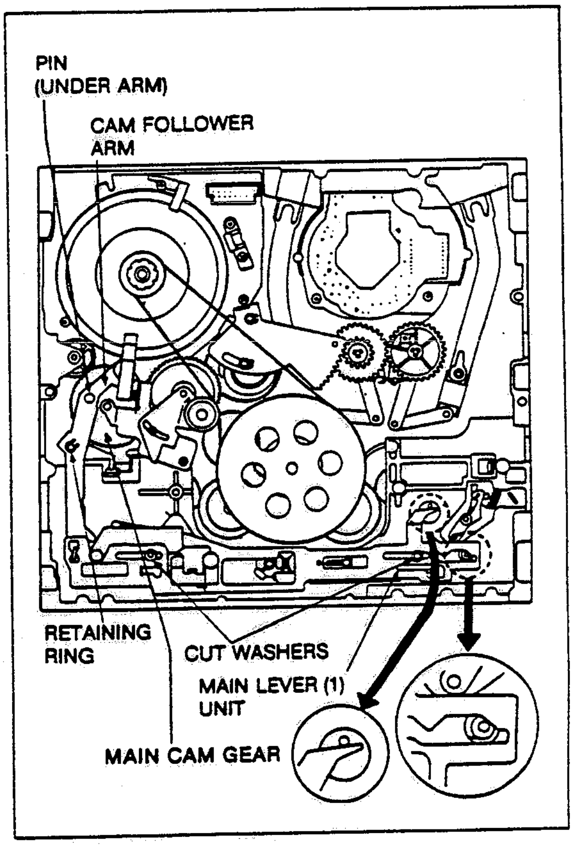


Abb. 12

II-7 Montage von Loading gear (T) <11>, Loading gear (S) <12>, Sector gear <13>, Tension roller unit <14> und SS brake unit <15>

Die Bandführungsbolzen P2 und P3 in Ausgangsstellung (ausgefädelt) bringen. Loading gear (T) <11> und Loading gear (S) <12> so montieren, daß sich die Bohrungen an den Rändern exakt gegenüber stehen.
Das Sector gear <13> so einsetzen, daß die Bohrung hinter dem zweiten Zahn mit der Markierung auf dem Loading gear (T) **(11)** fluchtet. Anschließend Sector gear <13> mit zwei Metallsprengringen (Retaining ring) sichern.
Tension roller unit <14> zusammen mit der SS brake unit <15> einsetzen und festschrauben.

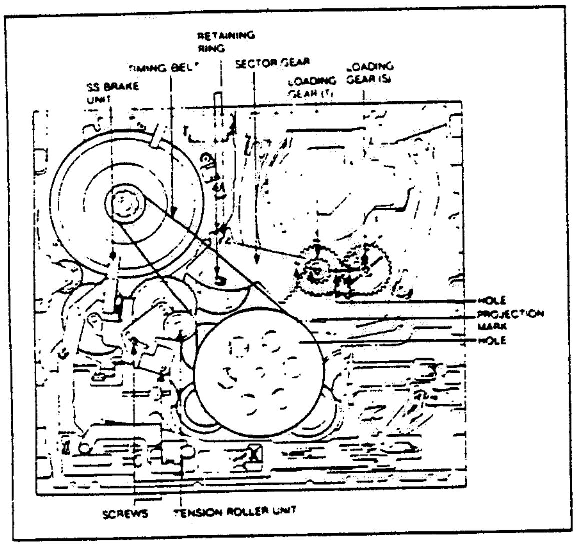

RETAINING RING
TIMING BELT
SECTOR GEAR
LOADING GEAR (S)
LOADING GEAR (T)
SS BRAKE UNIT
HOLE
PROJECTION MARK
HOLE
SCREWS
TENSION ROLLER UNIT

Abb. 13

II-8 Montage des Connection gear <16>

Bitte beachten

Vor dem Einbau des Connection gear <16> nochmals überprüfen ob sich das Sub cam gear <2> und alle anderen bereits montierten Teile korrekt in ihrer vorstehend beschriebenen Position befinden.

Das Connection gear <16> so einsetzen, daß die Bohrung am Rand mit der Bohrung am Rand des Sub cam gear <2> fluchtet. Eine weitere Markierung auf dem Connection gear <16> zeigt bei richtigem Einbau auf 3^{00} Uhr.

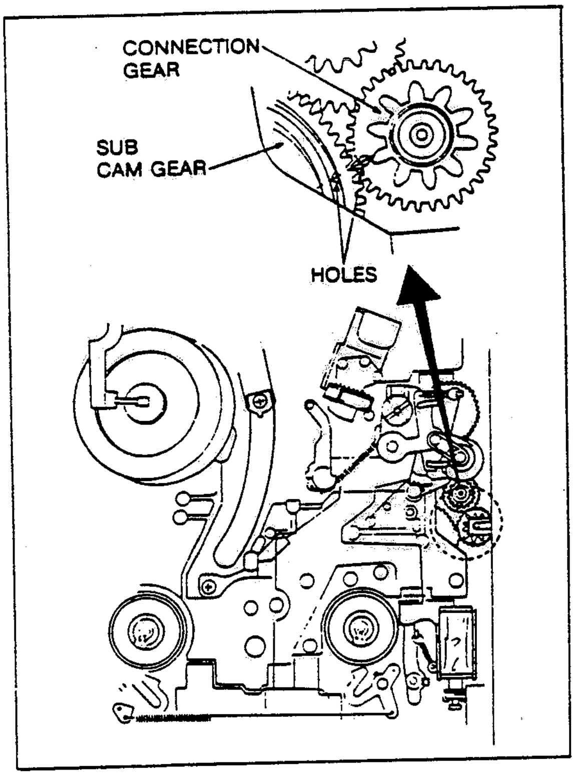

CONNECTION GEAR
SUB CAM GEAR
HOLES

Abb. 14

II-9 Montage von Mode select switch <17> und P5 pull out sector gear <18>

Den Mode select switch <17> einsetzen, festschrauben und seine 5 Anschlüsse anlöten.

Das P5 pull out sector gear <18> so einsetzen, daß die Markierung genau auf den ersten Zahn des P5 arm zeigt (siehe dazu Abb. 15).

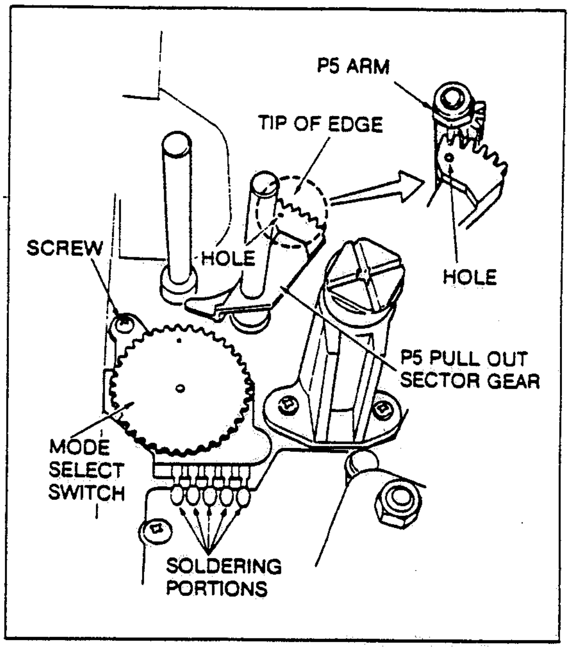

P5 ARM
TIP OF EDGE
SCREW
HOLE
HOLE
P5 PULL OUT SECTOR GEAR
MODE SELECT SWITCH
SOLDERING PORTIONS

Abb. 15

II-10 Montage von Pinch cam <19>, Pressure roller unit <20> und Pinch cam cap <21>

Zum Einbau von Pinch cam <19> zunächst Post P5 von Hand in Arbeitsstellung bringen. Pinch cam <19> so einsetzen, daß die Bohrung am Rand mit der Bohrung am Rand des Mode select switch <17> fluchtet und gleichzeitig der längere Zahn des Pinch cam <19> mit der Markierung des Pinch speed down gear <4> übereinstimmt. Bei richtiger Montage bilden die Bohrung am Mode select switch <17>, die Bohrung am Pinch cam <19> sowie der längere Zahn des Pinch cam <19> und die Bohrung am Pinch speed down gear <4> eine Linie (siehe auch Abb. 6 auf Seite 5).

Pressure roller unit <20> einsetzen und zuletzt Pinch cam cap <21> aufsetzen.

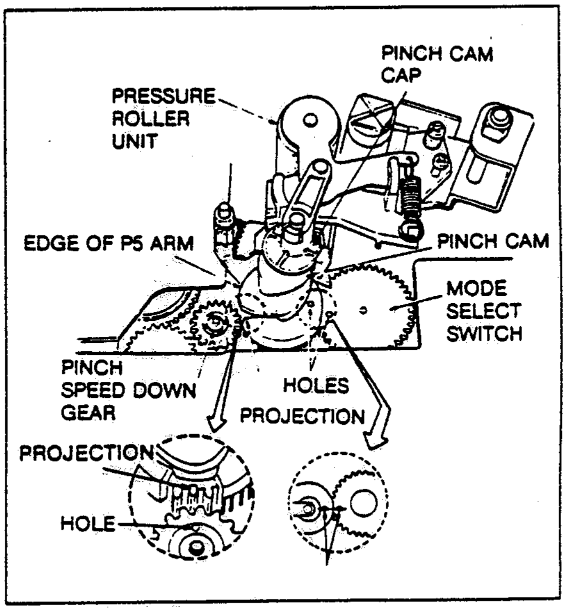

PINCH CAM CAP
PRESSURE ROLLER UNIT
EDGE OF P5 ARM
PINCH CAM
MODE SELECT SWITCH
PINCH SPEED DOWN GEAR
HOLES
PROJECTION
PROJECTION
HOLE

Abb. 16

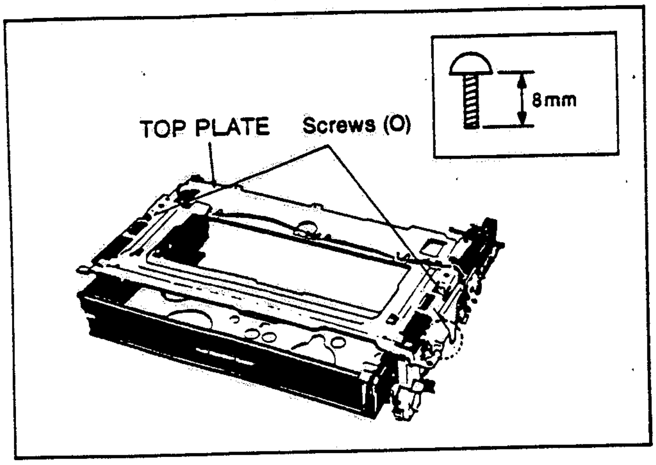


Abb. 17

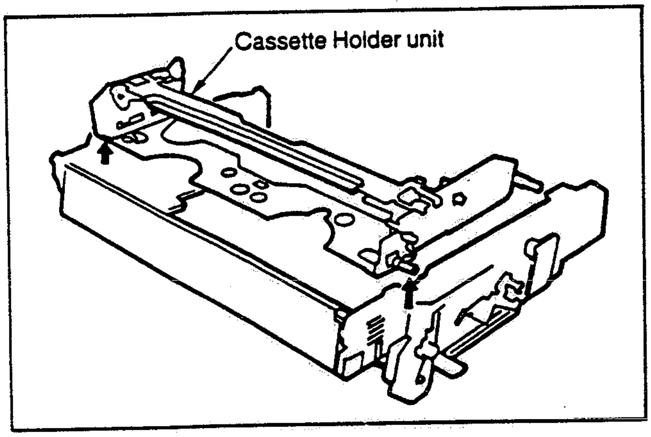


Abb. 18

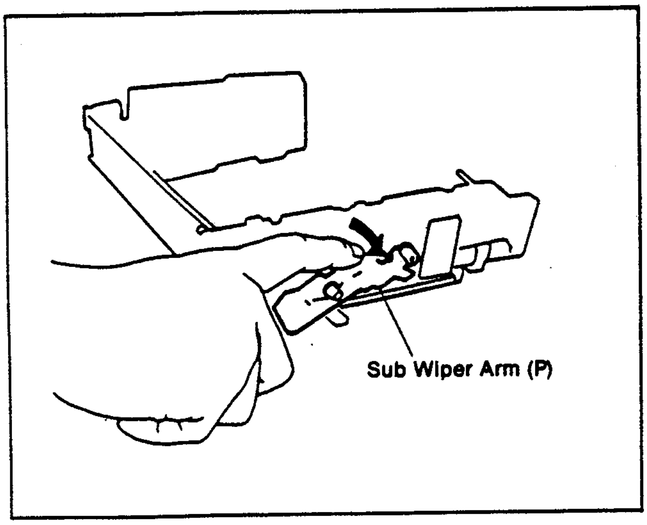


Abb. 19

II-11 Einbau des Kassettenschachtes

Anmerkung

Vor dem Einbau des Kassettenschachtes sollte eine mechanische und elektrische Funktionsprüfung durchgeführt werden. Eventuelle Montagefehler werden so frühzeitig erkannt und zusätzliche Arbeiten vermieden.

Die manuelle Prüfung ist auf Seite 3, die elektrische Prüfung auf Seite 4 beschrieben.

Der Einbau des Kassettenschachtes kann auf zwei Wegen erfolgen. **1. Aus der Position half loading,** d.h. aus der Position, die sich nach erfolgtem Zusammenbau ergibt. **2. Aus der Position Eject.** Dazu muß die Mechanik zuerst in diese Position gebracht werden.

II-11-1 Einbau des Kassettenschachtes aus der Position Half loading

Zuerst prüfen ob sich das Laufwerk in der Position Half loading befindet, gegebenenfalls einstellen (siehe Seite 3).
Zwei Schrauben <Srews (O)> entfernen und Top plate abnehmen (Abb. 17).
Cassette holder unit entfernen, wie in Abb. 18 gezeigt.
Sub wiper arm (P) in Pfeilrichtung drücken und in der unteren Position einrasten (Abb. 19).

Den Kassettenschacht ohne Kassettenhalter mit niedergedrücktem Sub wiper arm (P) so in das Chassis einsetzen, daß der erste Zahn der Zahnstange <Rack gear A (1)> in Abb. 20 mit der Markierung des Connection gear <16>. übereinstimmt.

Hinweis: Der in Abb. 20 gezeigte zweite Zahn ist falsch, die Beschriftung ist korrekt.

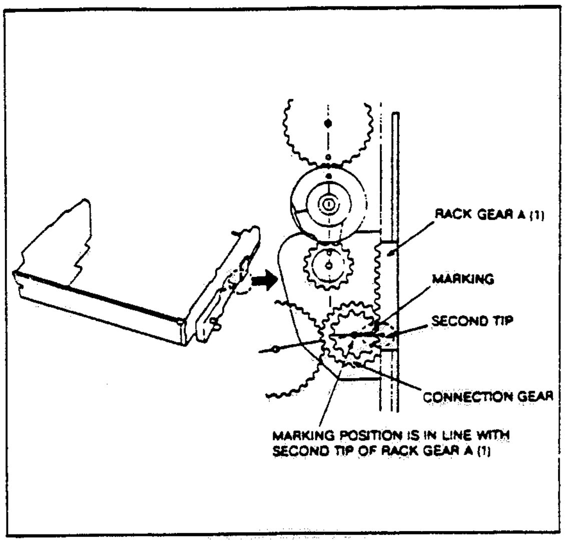

RACK GEAR A (1)
MARKING
SECOND TIP
CONNECTION GEAR
MARKING POSITION IS IN LINE WITH SECOND TIP OF RACK GEAR A (1)

Abb. 20

Den Kassettenschacht mit 4 Schrauben (Srews (D) in Abb. 21) befestigen.

Change lever betätigen und Capstanmotor vorsichtig entgegen dem Uhrzeiger drehen, bis Position Eject erreicht ist.

Cassette holder unit einsetzen.

Top plate aufsetzen und mit zwei Schrauben befestigen.

Flexible 5-polige Leitung an P 1503 anstecken.

2-poligen Stecker einrasten.

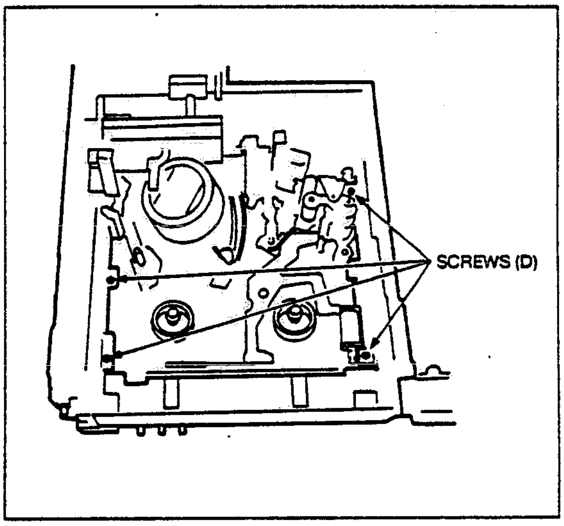


Abb. 21

Laufwerk mit Kassette auf alle Funktionen prüfen.

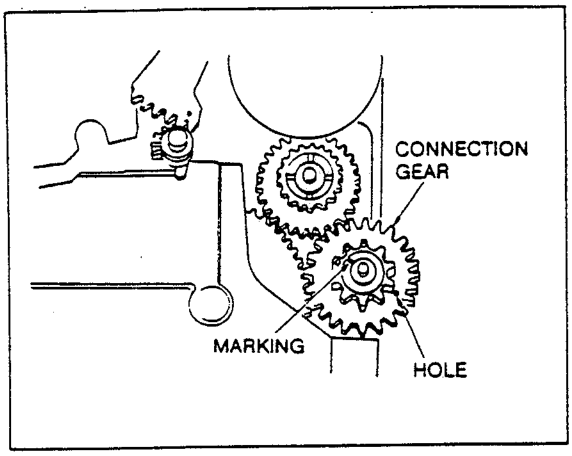

CONNECTION GEAR
MARKING
HOLE

Abb. 22

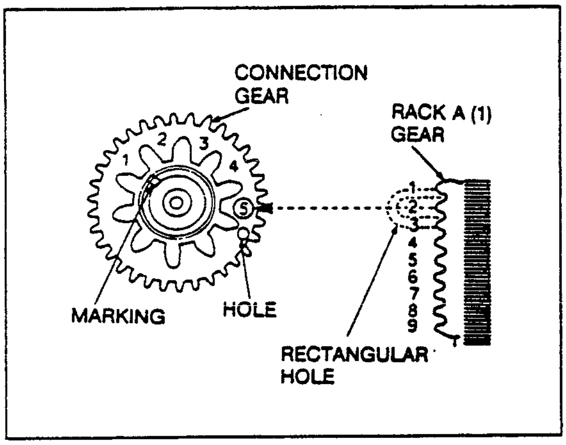

CONNECTION GEAR
RACK A (1) GEAR
1
2
3
4
5
1
2
3
4
5
6
7
8
9
MARKING
HOLE
RECTANGULAR HOLE

Abb. 23

II-2-2 Einbau des Kassettenschachtes aus der Position Eject

Zunächst das Laufwerk in die Position Eject bringen. Dieser Vorgang ist auf Seite 3 beschrieben.

In dieser Position die Markierung auf dem Connection gear <16> merken (Marking in Abb. 22).
Dann den Capstanmotor in Uhrzeigerrichtung drehen, bis das Connection gear <16> genau eine Umdrehung gemacht hat.

Jetzt den Kassettenschacht einsetzen. Dabei darauf achten, daß der zweite Zahn des <Rack gear A (1)> in die fünfte Nut des Connection gear paßt, wie in Abb. 23 gezeigt.

Um das Zusammenspiel zwischen Rack gear und Connection gear besser beobchten zu köönen, ist es zweckmäßig, die Top plate abzunehmen.

Kassettenschacht befestigen <Srews (D) in Abb. 21>

Falls abgenommen -Top plate einsetzen und befestigen.

Flexible 5-polige Leitung an P 1503 anstecken.

2-poligen Stecker einrasten.

Laufwerk mit Kassette auf alle Funktionen prüfen.